

REPORT OF IMMUNOPHENOTYPING STUDIES

Date of Report: 07/24/2019

Patient Name: MOLDENHAUER, WESLEY D.

MR#: 607322

Pathology ID#: WHS-19-3935

DOB: 12/19/1977

Accession#: W79379

Source: **Peripheral blood**

Collected: 07/23/2019

Ordering Physician: Destree, C. / Sewall, S.

The submitted specimen was evaluated based on a diagnosis of lymphocytosis and to rule out CLL.

The submitted specimen consisted of approximately 30% lymphocytes.

B-cells, marking with CD19 account for 10% of the lymphocytes. The B-cells do not co-express CD5, a T-cell marker associated with B-CLL and MCL. Activation marker, CD23, is heterogeneous. The B-cells express both kappa (57%) and lambda (29%) surface light chains.

T-cells, marking with CD3 and CD5 account for approximately 70% of the lymphocytes

Summary of markers performed:

CD3, CD5, CD19, CD23, CD45, kappa and lambda light chains

INTERPRETATION: A monoclonal B-cell population is not identified.

SIGNED: Sarah Sewall, M.D. (07/24/2019)



Information--715-847-2136 or 847-2130

This test was developed and its performance characteristics determined by Aspirus Wausau Hospital. It has not been cleared or approved by the U.S. Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This test is used for clinical purposes. It should not be regarded as investigational or for research. This laboratory is certified under the Clinical Laboratory Improvement Amendments of 1988 (CLIA-88) as qualified to perform high complexity clinical laboratory testing.

Report written by: kd

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Report written by: kd




ASPIRUS Reference Lab
333 Pine Ridge Blvd. Wausau, WI. (715)847-2136

FLOW CYTOMETRY REQUEST

Bone Marrow, Peripheral Blood and Tissue

PROVIDER required information

Patient: (label)		Specimen:	
Name	MOLDENHAUER, WESLEY D 687322 19-DEC-1977 041Y M	<input type="checkbox"/> Bone marrow	site _____ ACD (yellow)
MRN:	 Y319121318 W79379	<input type="checkbox"/> Lymph node	site _____ fresh in RPMI
DOB:	23-JUL-2019 2227 ID: L FLOW IMC 1610	<input checked="" type="checkbox"/> Blood	specify _____ EDTA (lavender)
		<input type="checkbox"/> Other	specify _____ fresh in RPMI
		Collected:	Date _____ Time: _____

Indication: New Diagnosis Post-Treatment Staging Relapse/Progression Remission

Pre-op Diagnosis or Treatment Status: lymphocytosis

Immunotherapy History: _____

Flow: TEST for: Acute leukemia CLL/Lymphoma(NHL) Myeloma Do Not Test

TEST for specific markers: V/L = limited panel

HOLD, test if: _____

Cytogenetics: TEST HOLD, test if: _____ Do Not Test

FISH: TEST HOLD, test if: _____ Do Not Test

Molecular: TEST HOLD, test if: _____ Do Not Test

Ordering Provider: Printed: _____ **Date:** _____ **Time:** _____

Signature: _____

PATHOLOGY

Slides to Path: (1 PB, 1BM): _____ date/time/tech Previous Flow: _____

TEST FLOW Panel: _____

Cancel FLOW Reason: Suboptimal Specimen Not indicated

This Ordering MD was Notified of CANCELED tests: _____ by: _____

Pathologist: SEM **Date/Time:** 7/20/19

SEM
SEMAN

Specimen ID: Y319115550
Specimen Type: Whole blood
Physician:

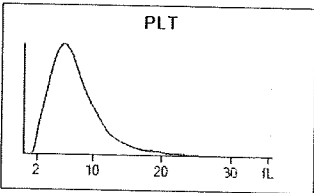
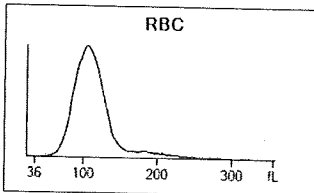
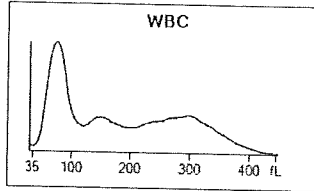
Panels: CD
Flag Set: Adult >35 years
Diagnosis: Priority: STAT

Name: MOLDENHAUER, WESLEY D
Gender: Male
Location: ER
Comment:

Patient ID: 607322;WHW
Age: 41 Years
DOB: 12/19/1977

Panels **Date** **Time** **Tube Pos** **Instrument** **Opr ID** **Exceptions**
CD (C) 07/23/2019 16:22:52 00251 DxHA SYSTEM

Test	Result	Flags	Units
WBC	17.3	H	10 ³ /uL
UWBC	17.3	H	10 ³ /uL
RBC	2.16	L	10 ⁶ /uL
HGB	8.1	L	g/dL
HCT	23.3	L	%
MCV	108.2	H	fL
MCH	37.3	H	pg
MCHC	34.5		g/dL
RDW	18.1	H	%
PLT	178		10 ³ /uL
MPV	7.7		fL
NE	42.6		%
LY	35.4		%
MO	18.4	H	%
EO	3.0		%
BA	0.6		%
NE#	7.4	H	10 ³ /uL
LY#	6.1	H	10 ³ /uL
MO#	3.2	H	10 ³ /uL
EO#	0.5		10 ³ /uL
BA#	0.1		10 ³ /uL
NRBC	0.0		/100WBC
NRBC#	0.00		10 ³ /uL



Suspect

Definitive

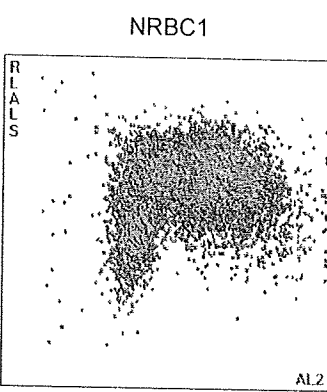
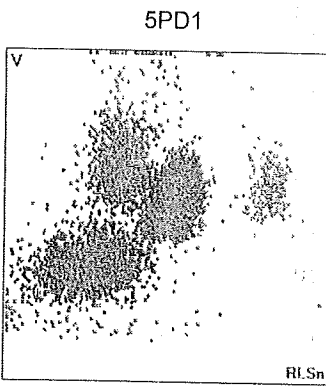
Macrocytosis 2+
Anisocytosis 1+
Lymphocytosis #
Monocytosis #

*2+ Target
2+ Echinoc*

Seg	39
Band	
Lymph	40
Mono	16
Eos	5
Baso	
Meta	
Myelo	
Pro	
Blast	
ATL	
Other	
NRBC	

Aniso	
Poik	
Polychr	
Hypo	
Micro	
Macro	2+
Other	2+ Target
Reviewed by	SH 2+

Comment: *Albumin*



Actions:

Comment: [S]:PathReview ? MAKE SLIDE. [S]:RBC morphology review. MAKE SLIDE. SNV. [S]:SNV. Perform Smear Review. MAKE SLIDE [S]:Make Albumin Smear if Smudge Cells Present.

INF/DAT Filename: 2019-07-23T16-22-52_Y319115550_00251_643004

Final Report

Rev: 3.9.0.31 10.6402.6962 [3333]

Actions Required: Reflex

Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 13:54:13

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1354_001.LMD

Run Date: 24-Jul-19, 13:53:14

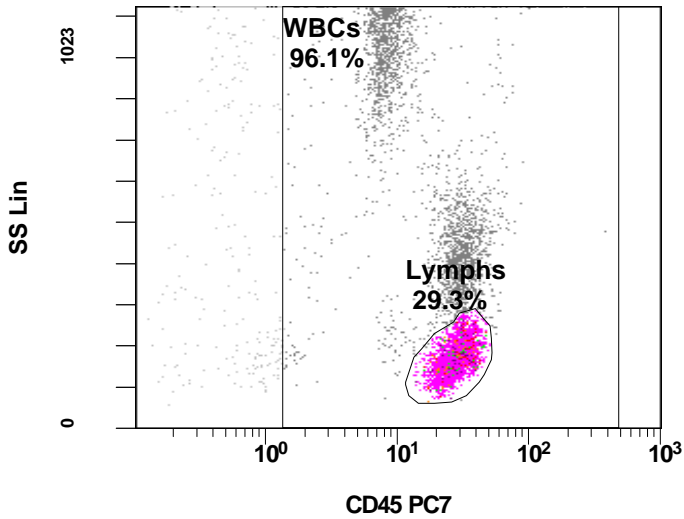
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

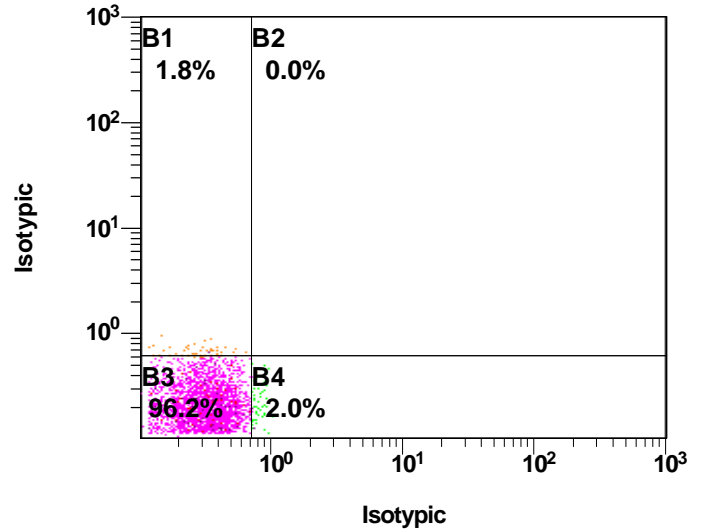
Acquisition Time/Events: 57.9s / 8883 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

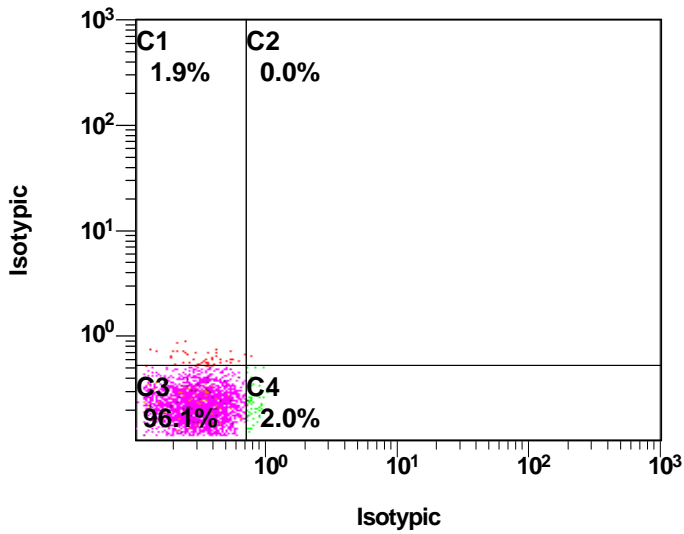
[Ungated] FL5 Log/SS Lin - ADC



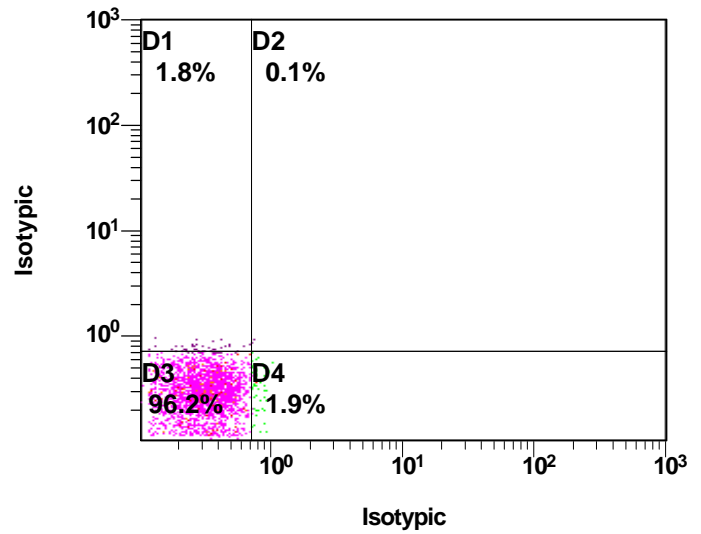
[Lymphs] FL1 Log/FL2 Log - ADC



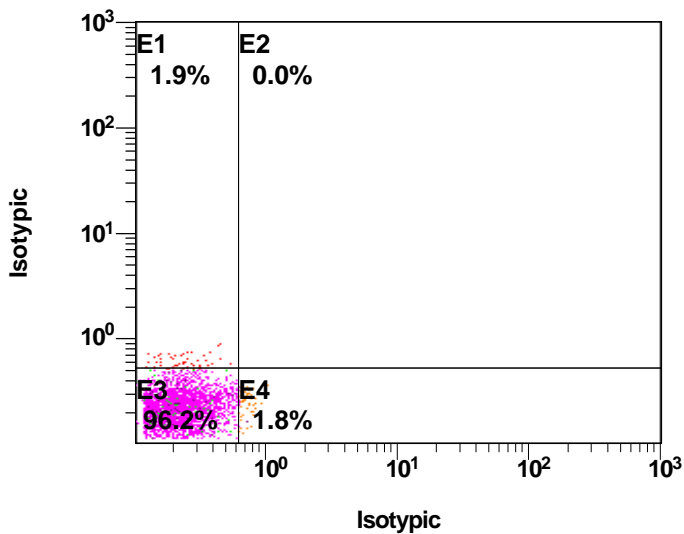
[Lymphs] FL1 Log/FL3 Log - ADC



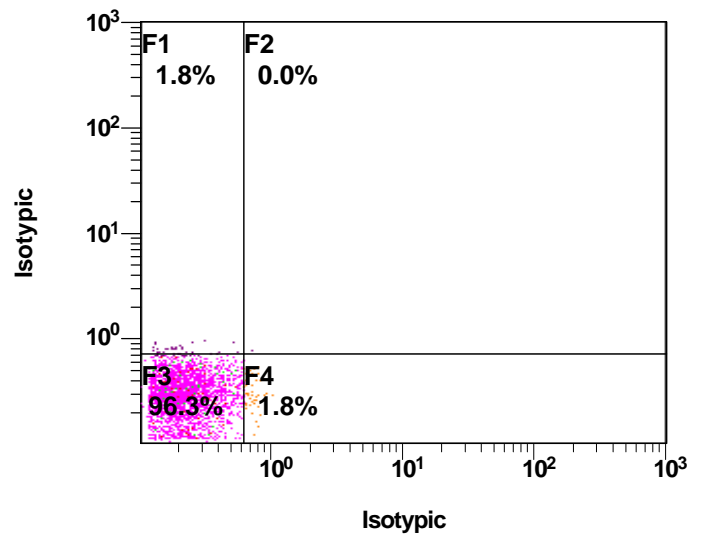
[Lymphs] FL1 Log/FL4 Log - ADC



[Lymphs] FL2 Log/FL3 Log - ADC



[Lymphs] FL2 Log/FL4 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 13:54:13

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1354_001.LMD

Run Date: 24-Jul-19, 13:53:14

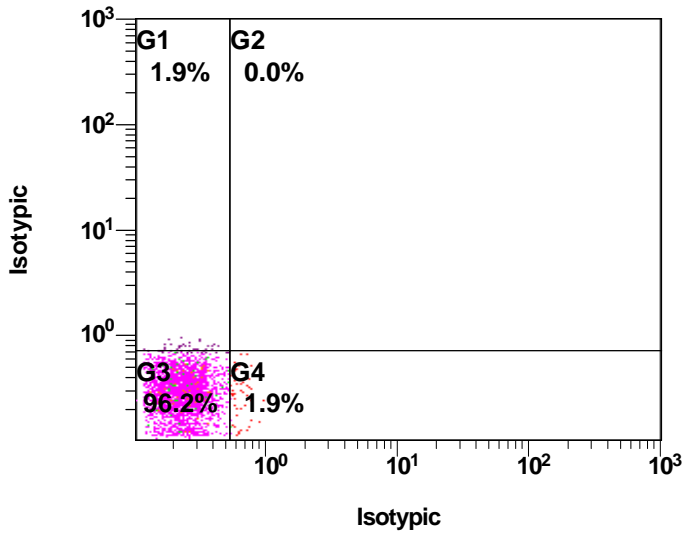
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

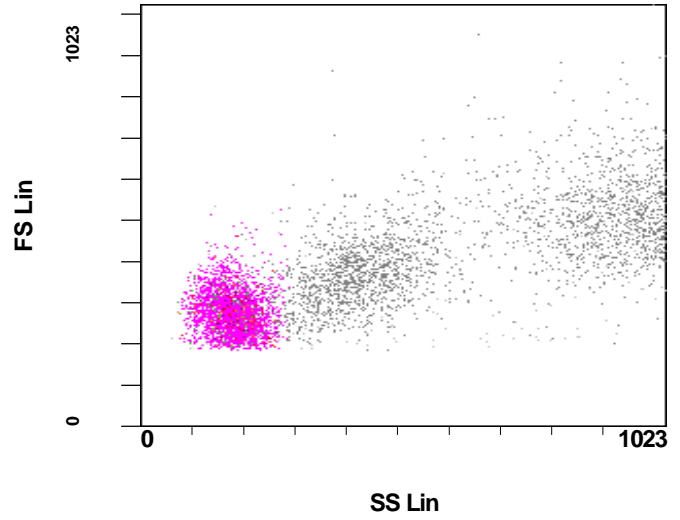
Acquisition Time/Events: 57.9s / 8883 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

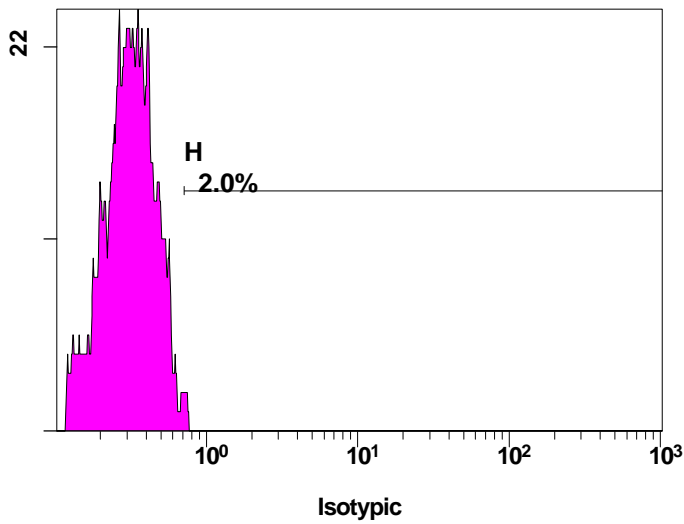
[Lymphs] FL3 Log/FL4 Log - ADC



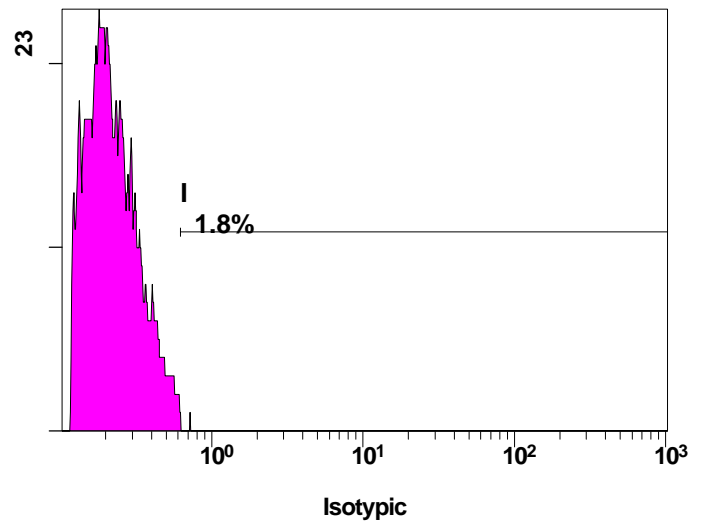
[Ungated] SS Lin/FS Lin - ADC



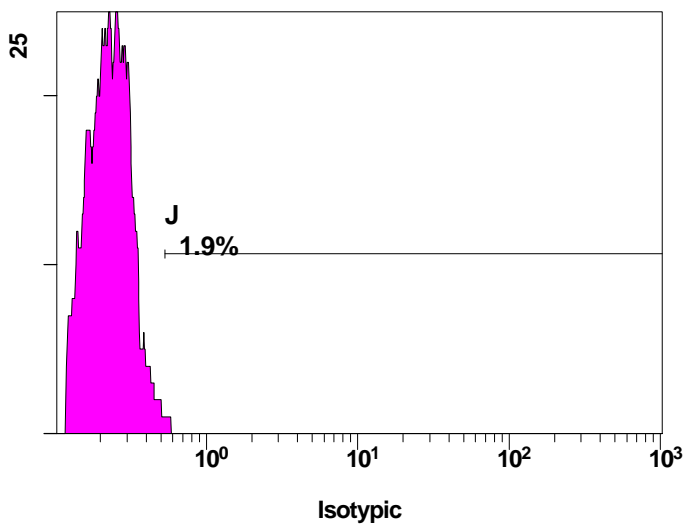
[Lymphs] FL1 Log - ADC



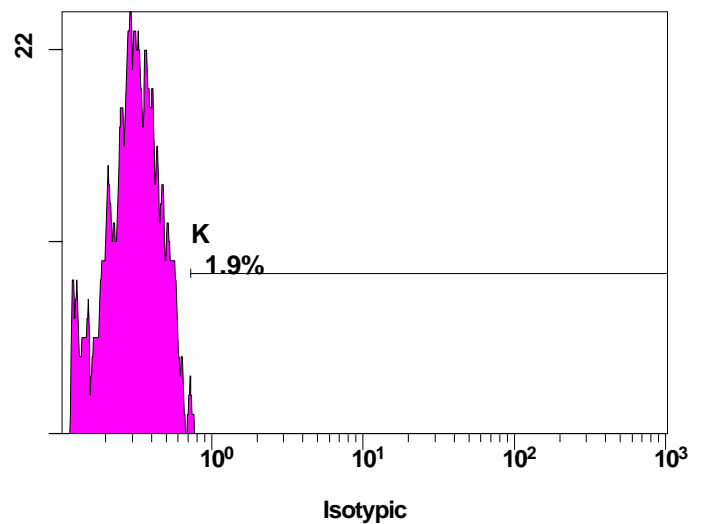
[Lymphs] FL2 Log - ADC



[Lymphs] FL3 Log - ADC



[Lymphs] FL4 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

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Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1354_001.LMD

Run Date: 24-Jul-19, 13:53:14

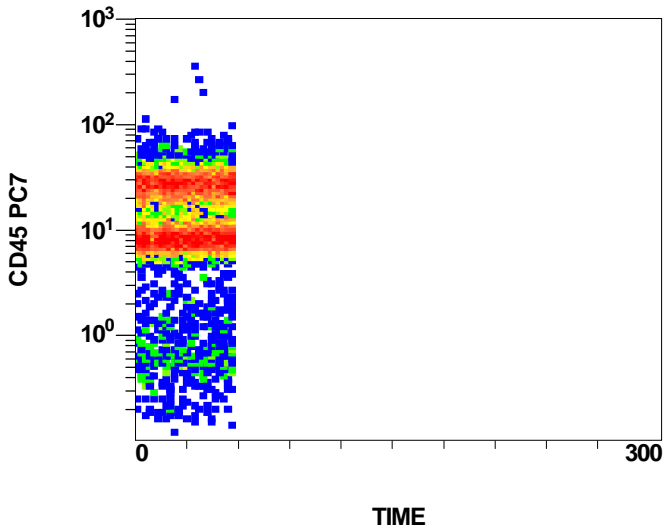
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

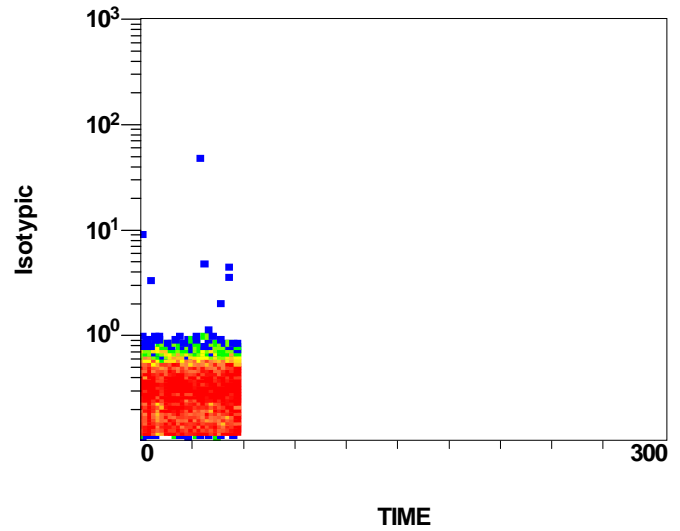
Acquisition Time/Events: 57.9s / 8883 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

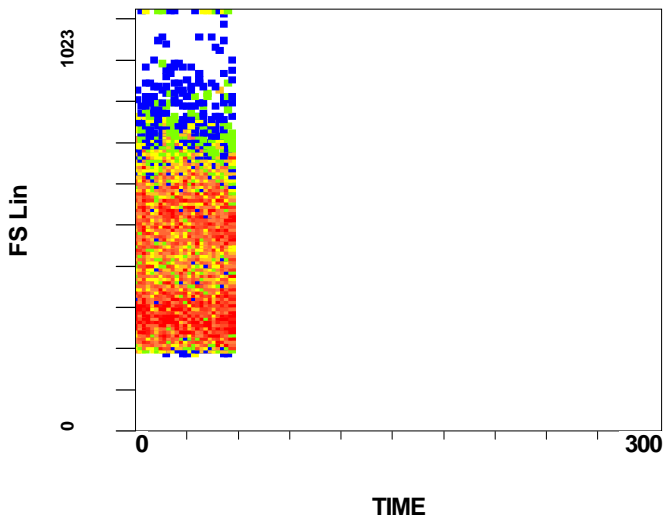
[Ungated] TIME/FL5 Log - ADC



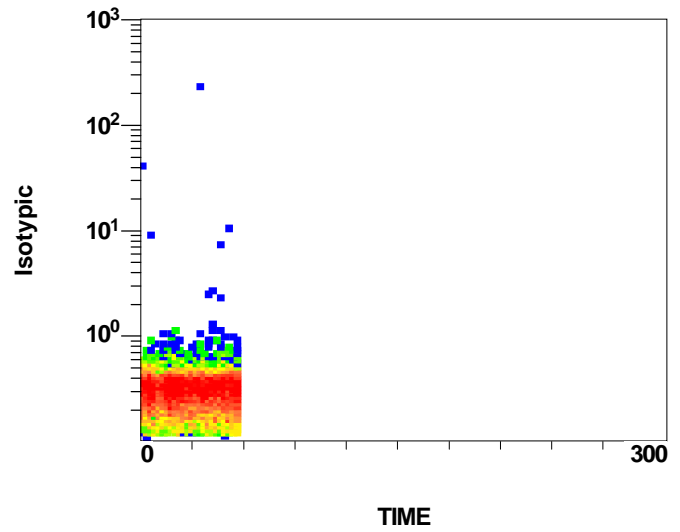
[Ungated] TIME/FL4 Log - ADC



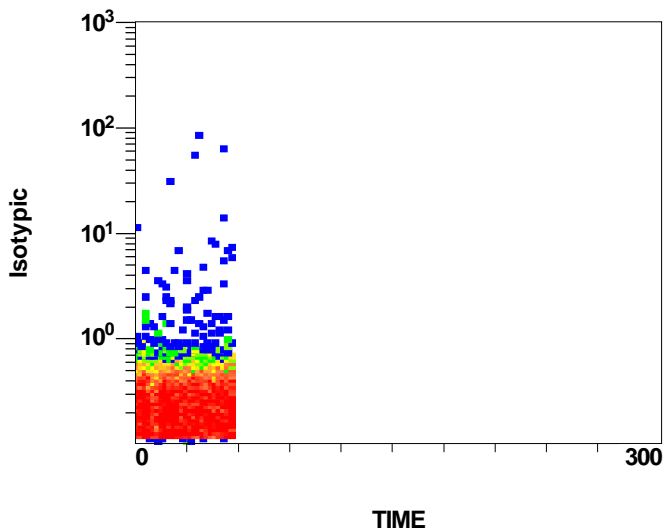
[Ungated] TIME/FS Lin - ADC



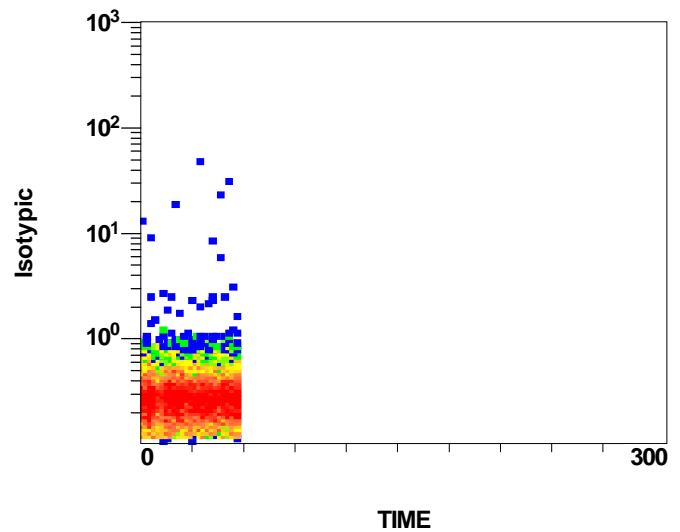
[Ungated] TIME/FL3 Log - ADC



[Ungated] TIME/FL2 Log - ADC



[Ungated] TIME/FL1 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 13:54:14

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB 607322_W79379_KD 1354 001.LMD

Run Date: 24-Jul-19, 13:53:14

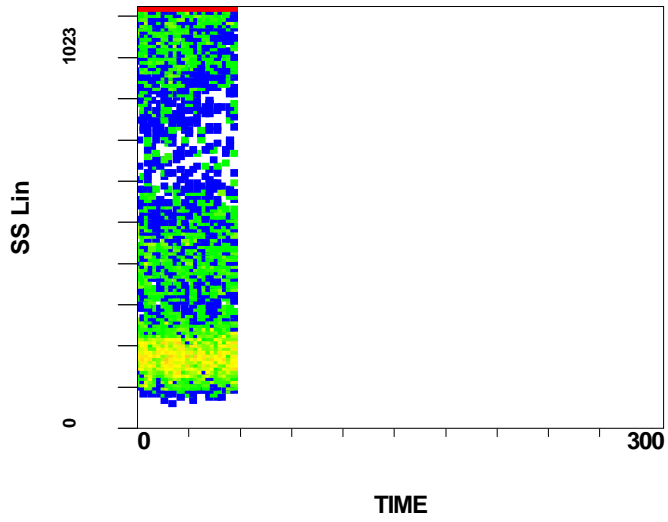
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

Acquisition Time/Events: 57.9s / 8883 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

[Ungated] TIME/SS Lin - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: CD19_20_23_5_45_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 13:56:38

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1356_002.LMD

Run Date: 24-Jul-19, 13:54:40

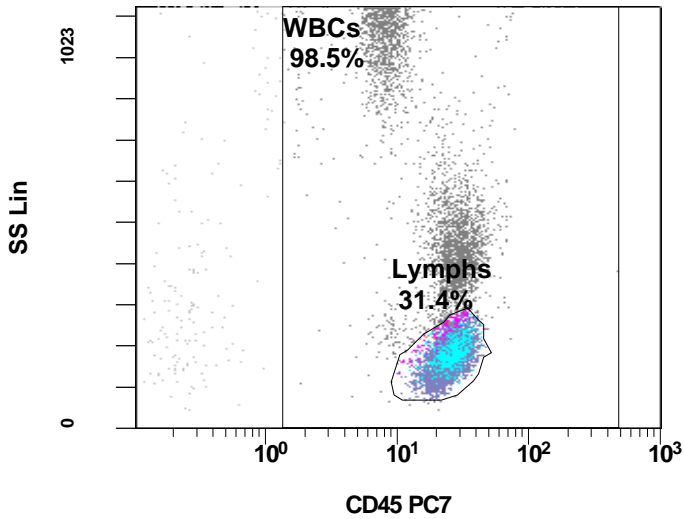
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

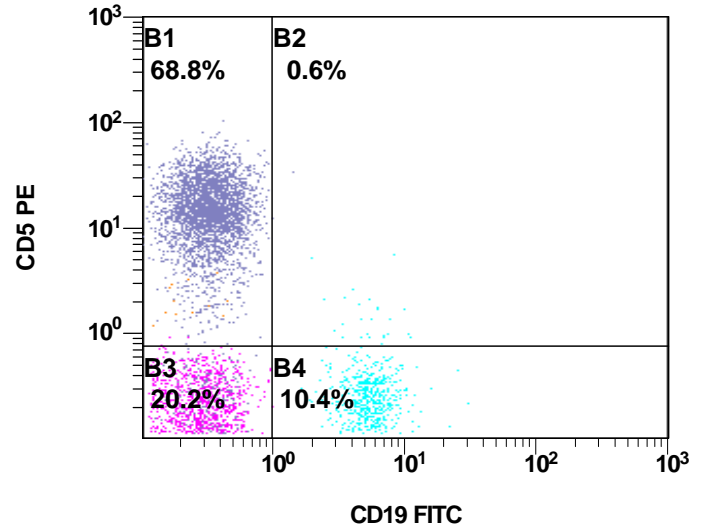
Acquisition Time/Events: 116.1s / 15940 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

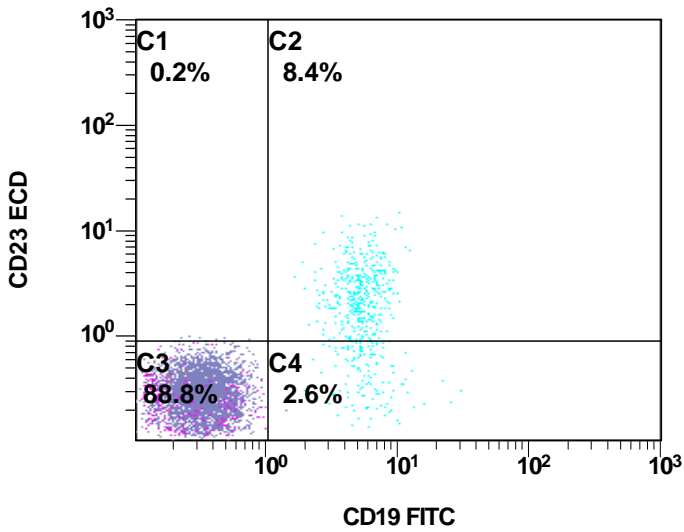
[Ungated] FL5 Log/SS Lin - ADC



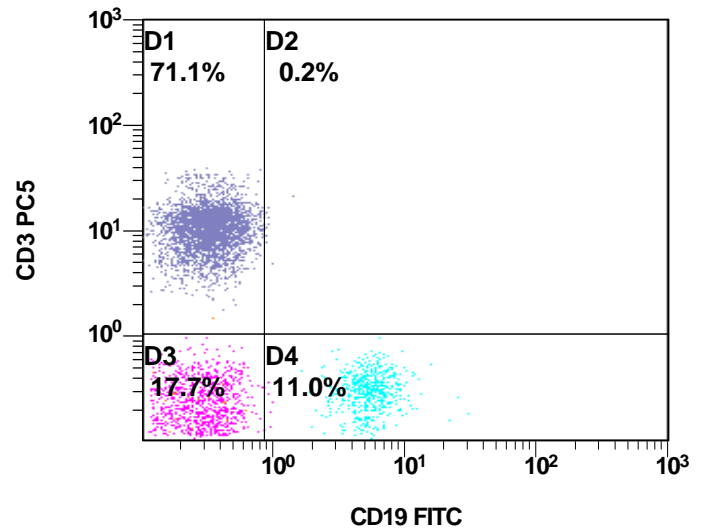
[Lymphs] FL1 Log/FL2 Log - ADC



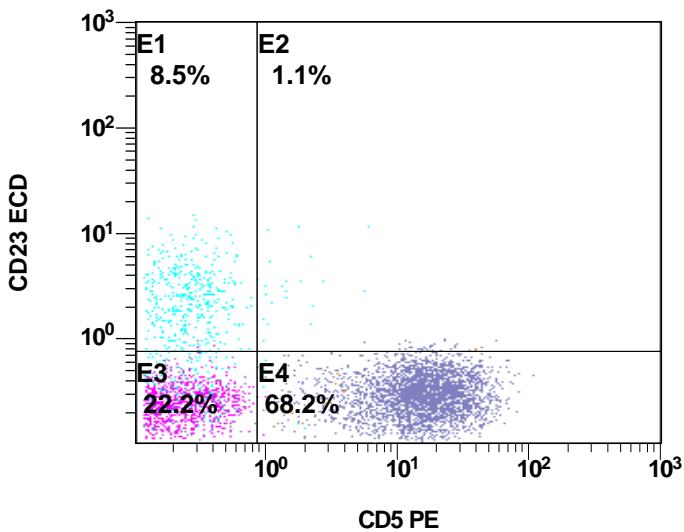
[Lymphs] FL1 Log/FL3 Log - ADC



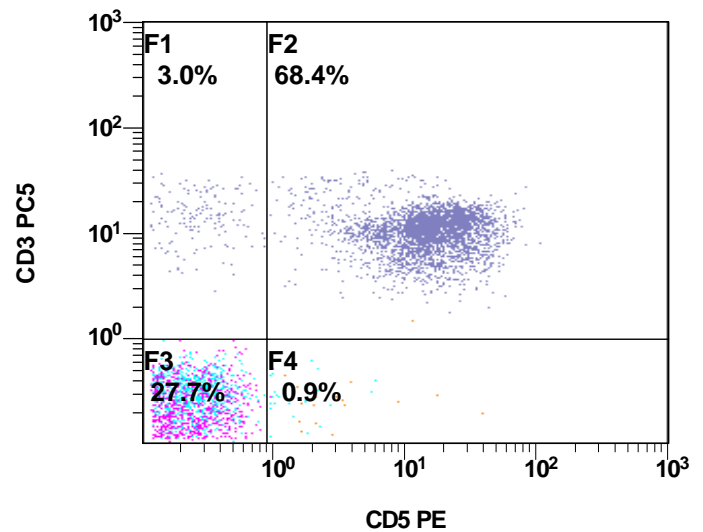
[Lymphs] FL1 Log/FL4 Log - ADC



[Lymphs] FL2 Log/FL3 Log - ADC



[Lymphs] FL2 Log/FL4 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: CD19_20_23_5_45_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 13:56:38

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1356_002.LMD

Run Date: 24-Jul-19, 13:54:40

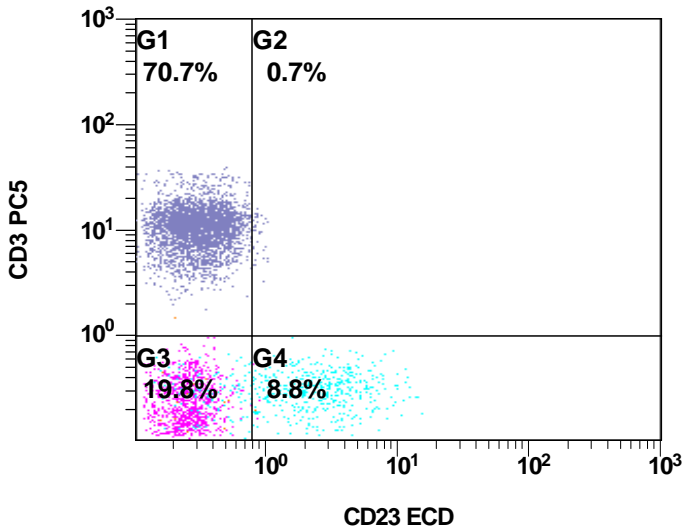
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

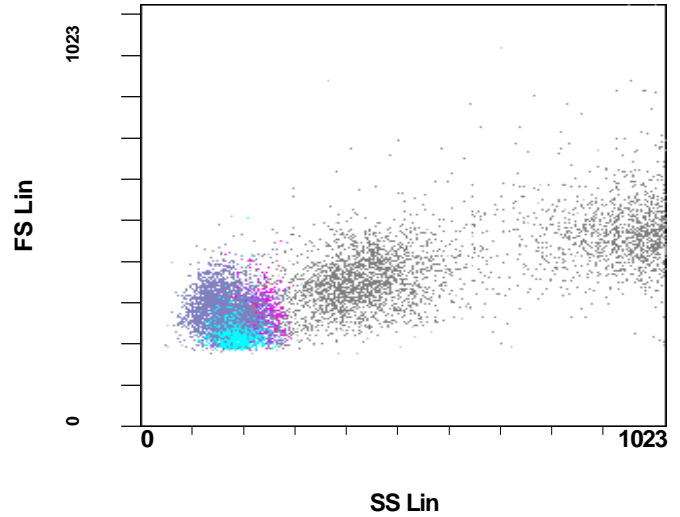
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Instrument SN: AS10020 Software Version: CXP 2.2

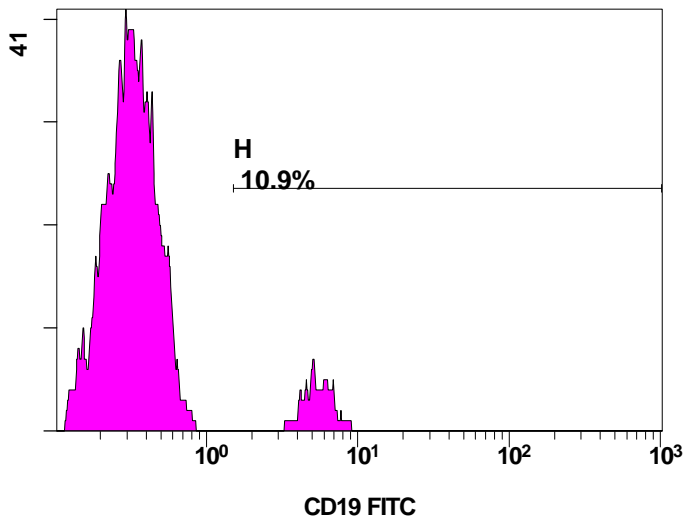
[Lymphs] FL3 Log/FL4 Log - ADC



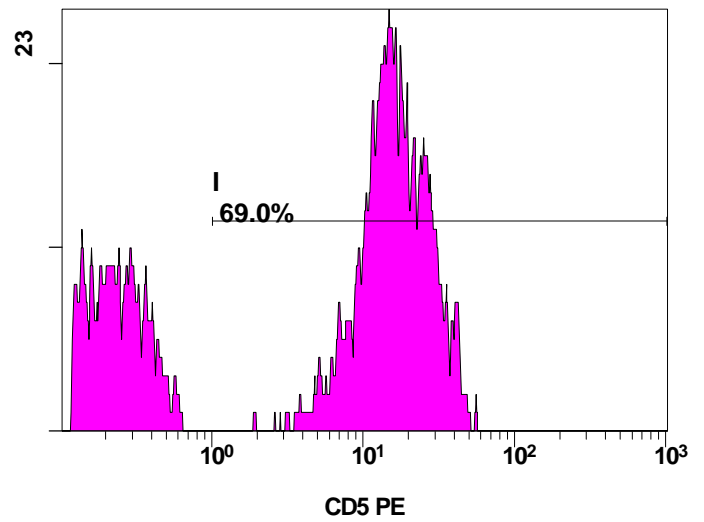
[Ungated] SS Lin/FS Lin - ADC



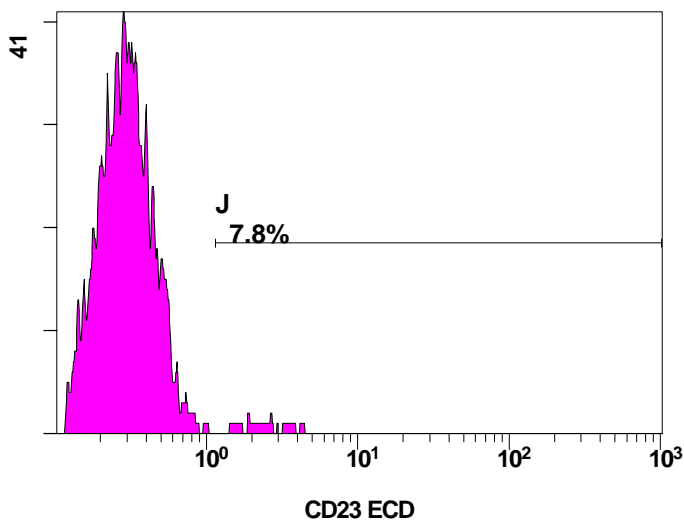
[Lymphs] FL1 Log - ADC



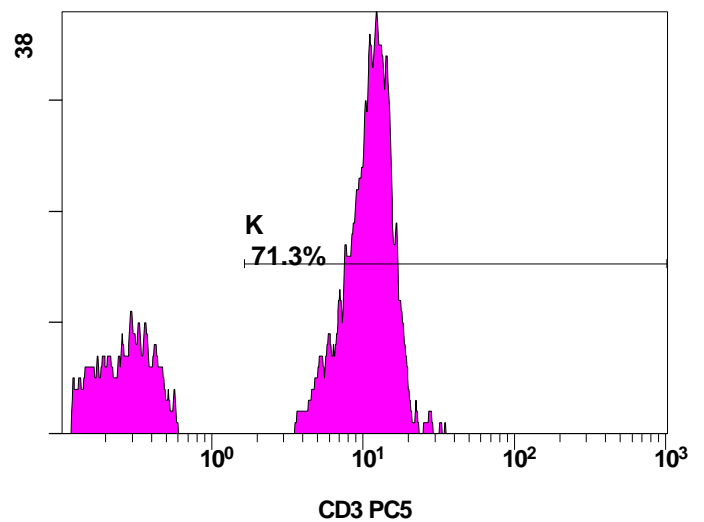
[Lymphs] FL2 Log - ADC



[Lymphs] FL3 Log - ADC



[Lymphs] FL4 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: CD19_20_23_5_45_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 13:56:38

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1356_002.LMD

Run Date: 24-Jul-19, 13:54:40

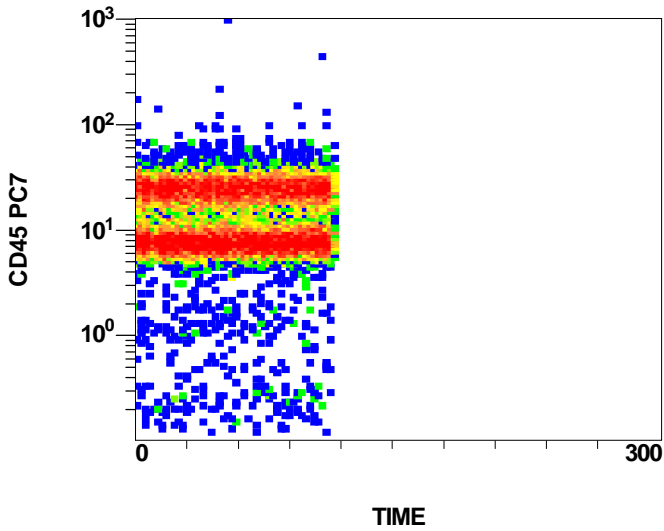
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User ID: flow

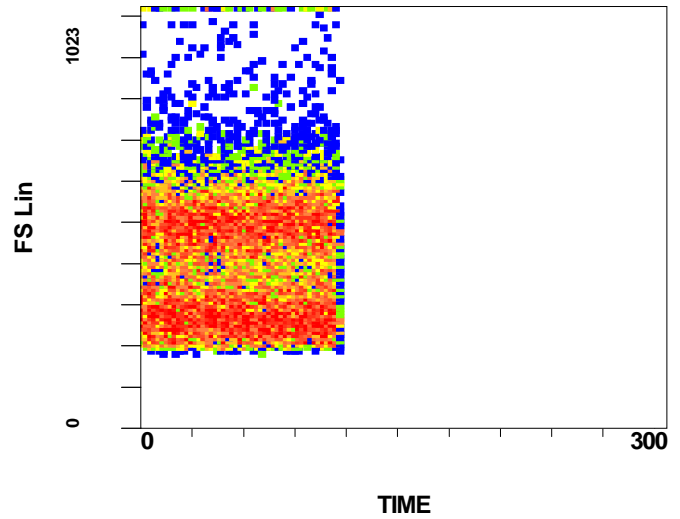
Acquisition Time/Events: 116.1s / 15940 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

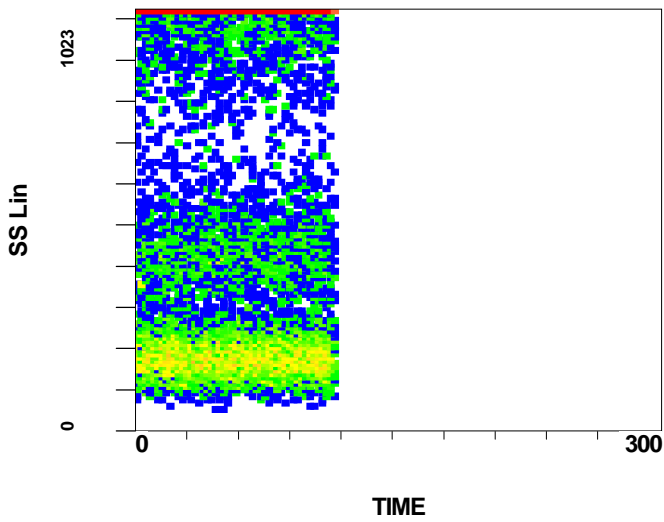
[Ungated] TIME/FL5 Log - ADC



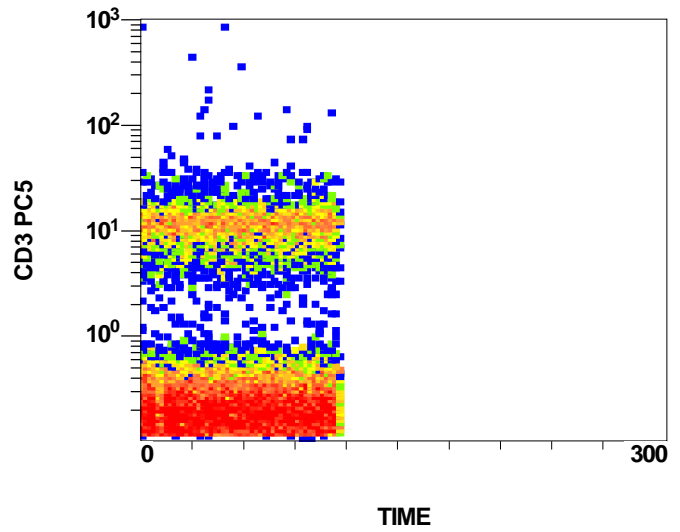
[Ungated] TIME/FS Lin - ADC



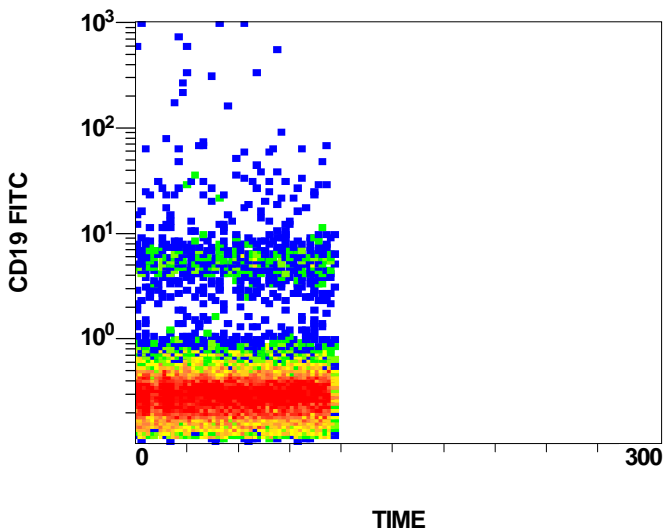
[Ungated] TIME/SS Lin - ADC



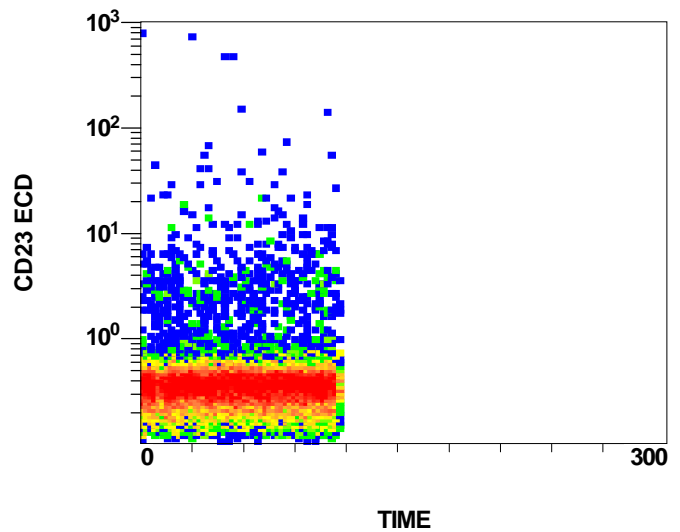
[Ungated] TIME/FL4 Log - ADC



[Ungated] TIME/FL1 Log - ADC



[Ungated] TIME/FL3 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: CD19_20_23_5_45_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 13:56:38

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1356_002.LMD

Run Date: 24-Jul-19, 13:54:40

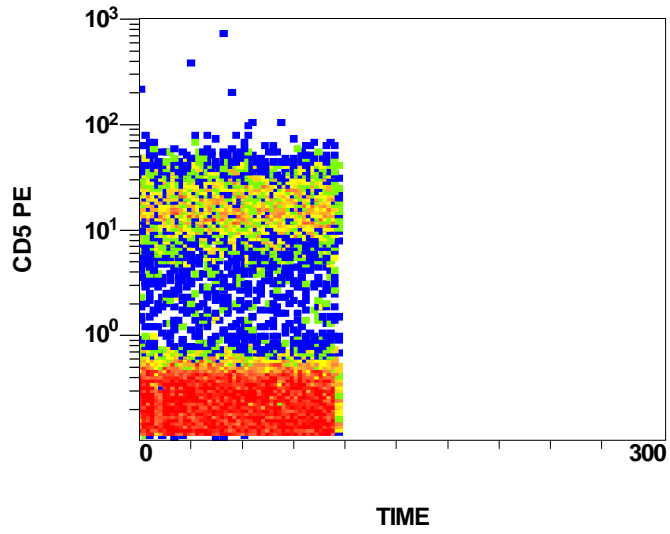
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

Acquisition Time/Events: 116.1s / 15940 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

[Ungated] TIME/FL2 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 14:08:47

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1408_003.LMD

Run Date: 24-Jul-19, 14:06:55

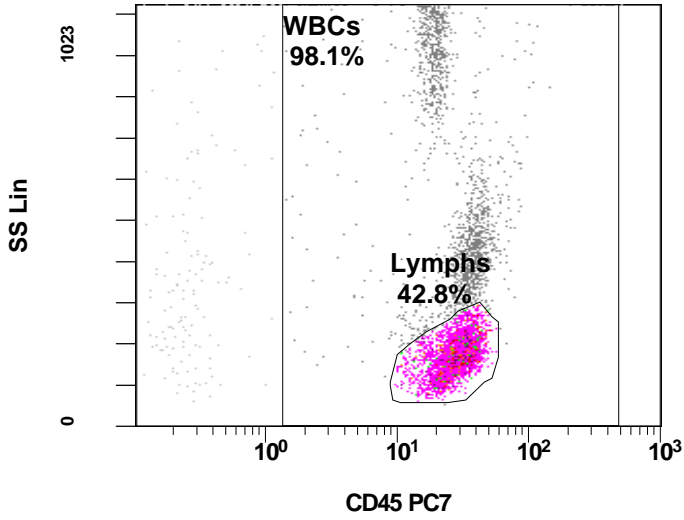
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

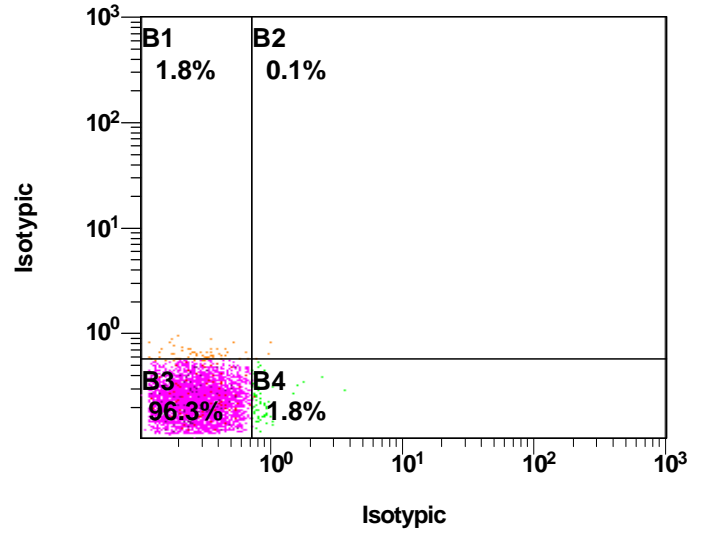
Acquisition Time/Events: 111.4s / 8481 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

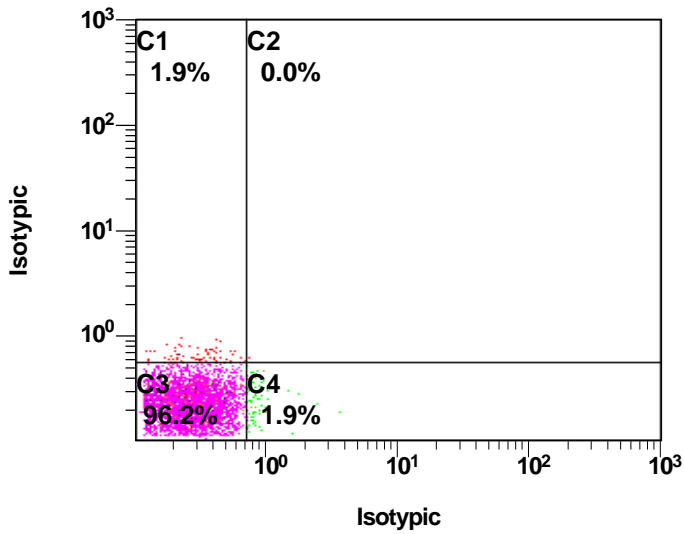
[Ungated] FL5 Log/SS Lin - ADC



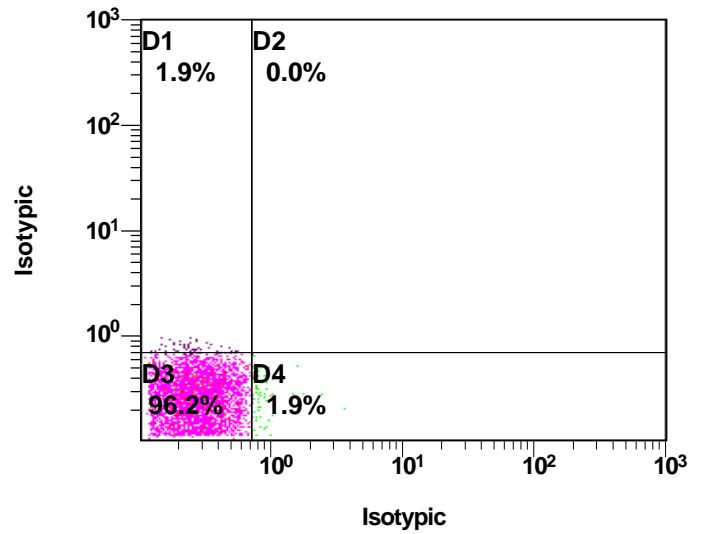
[Lymphs] FL1 Log/FL2 Log - ADC



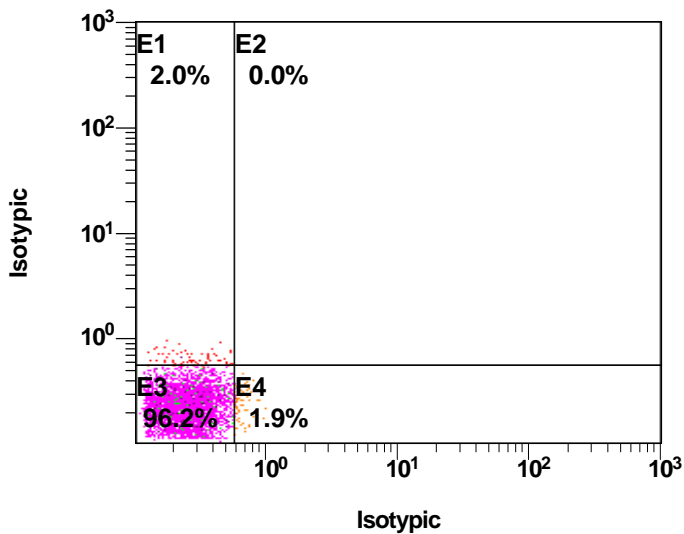
[Lymphs] FL1 Log/FL3 Log - ADC



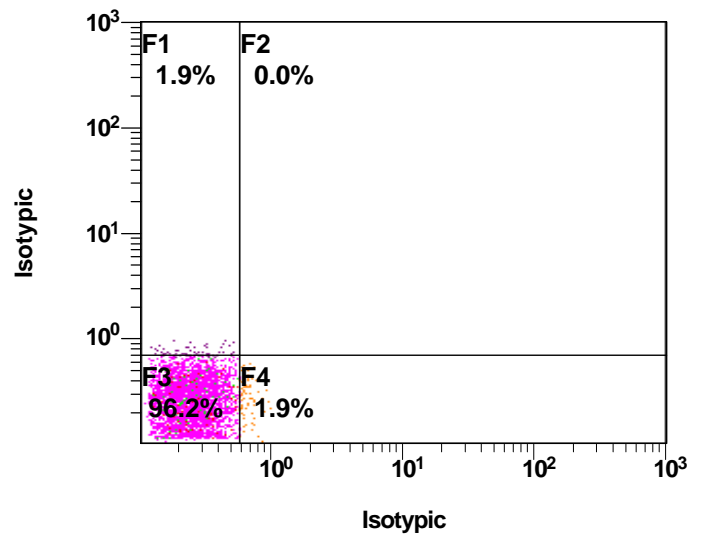
[Lymphs] FL1 Log/FL4 Log - ADC



[Lymphs] FL2 Log/FL3 Log - ADC



[Lymphs] FL2 Log/FL4 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 14:08:48

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1408_003.LMD

Run Date: 24-Jul-19, 14:06:55

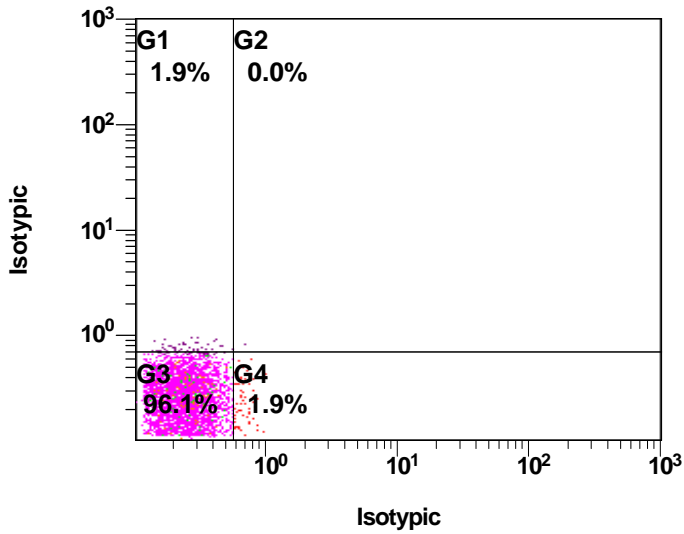
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

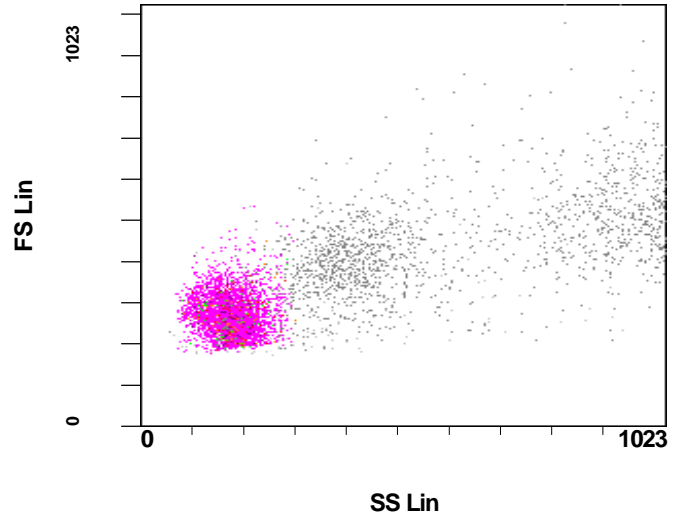
Acquisition Time/Events: 111.4s / 8481 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

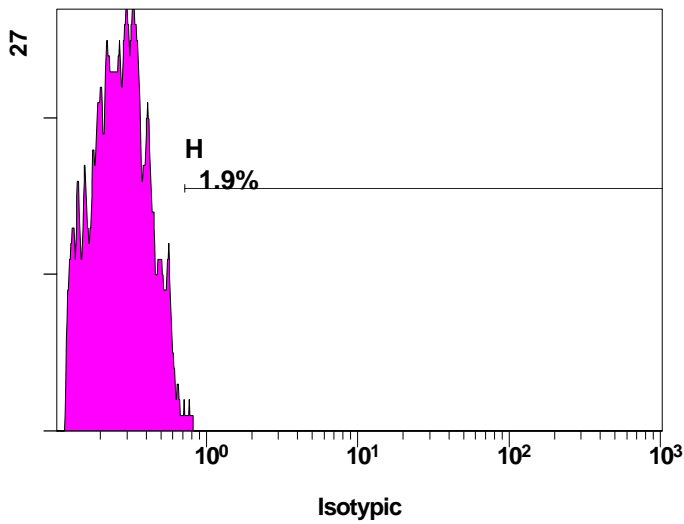
[Lymphs] FL3 Log/FL4 Log - ADC



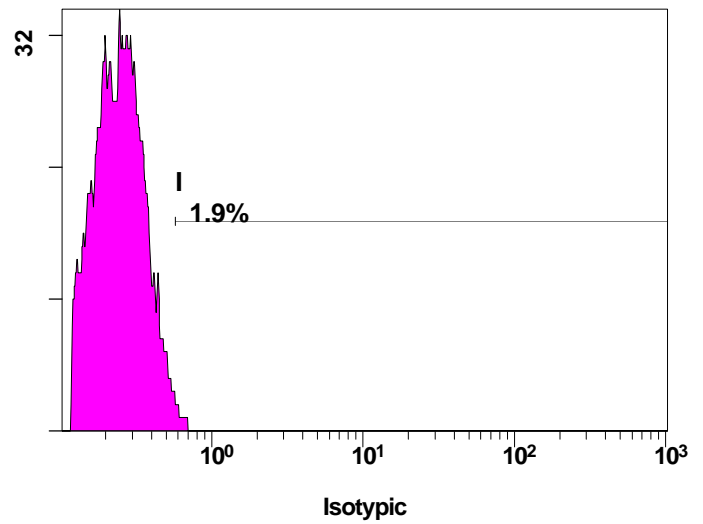
[Ungated] SS Lin/FS Lin - ADC



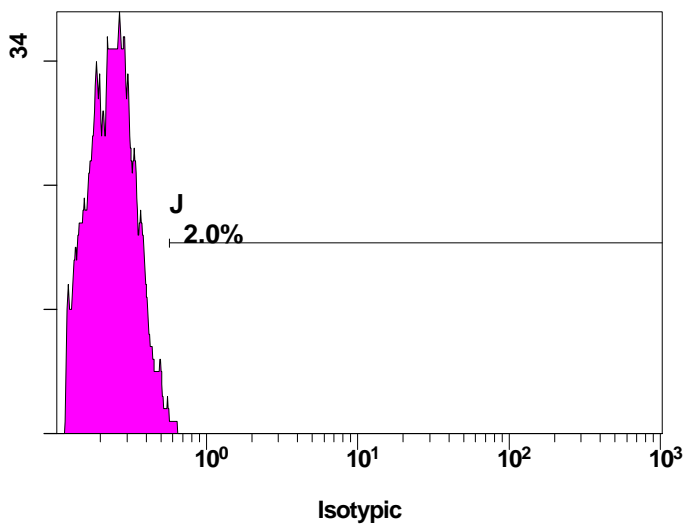
[Lymphs] FL1 Log - ADC



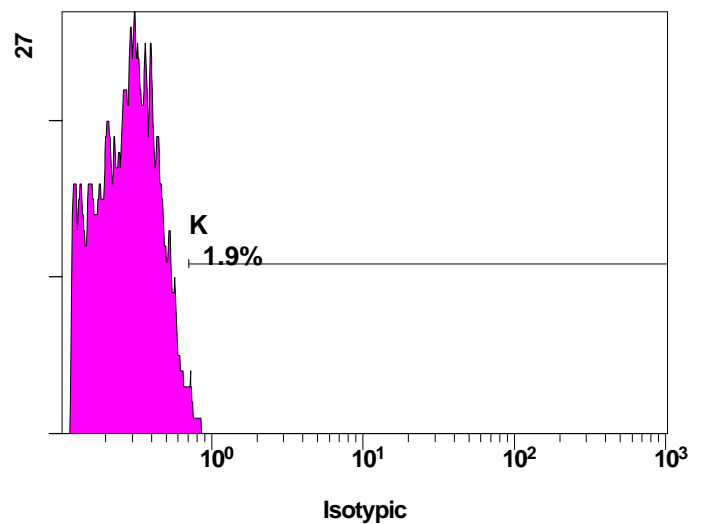
[Lymphs] FL2 Log - ADC



[Lymphs] FL3 Log - ADC



[Lymphs] FL4 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 14:08:48

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1408_003.LMD

Run Date: 24-Jul-19, 14:06:55

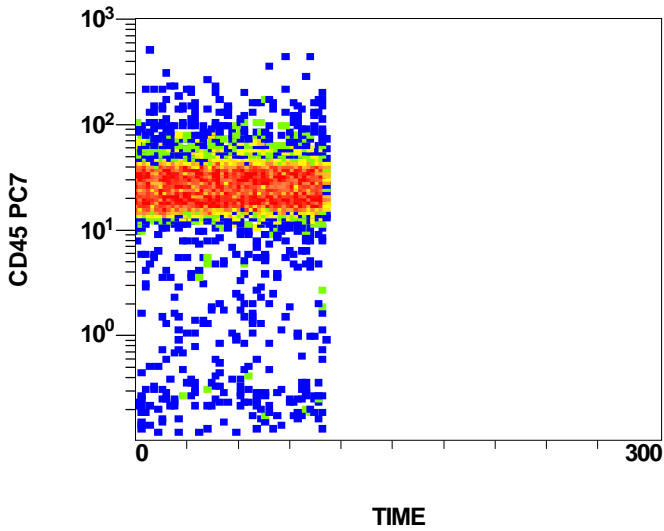
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

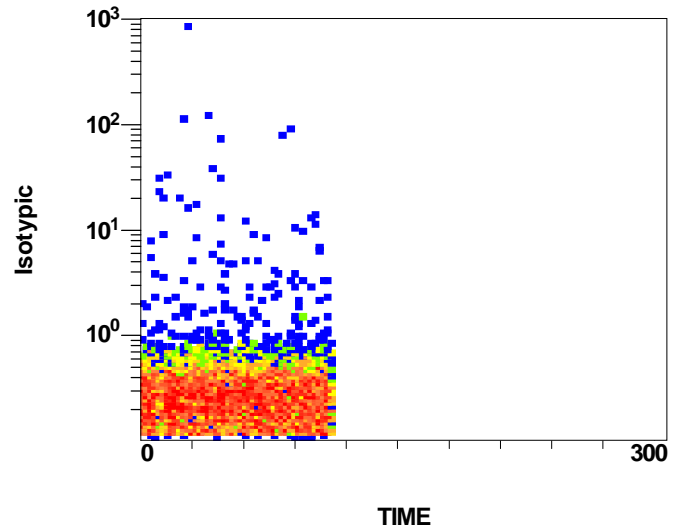
Acquisition Time/Events: 111.4s / 8481 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

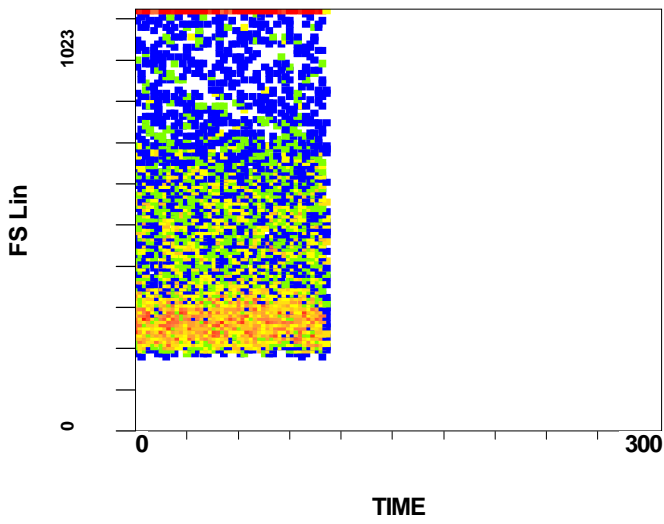
[Ungated] TIME/FL5 Log - ADC



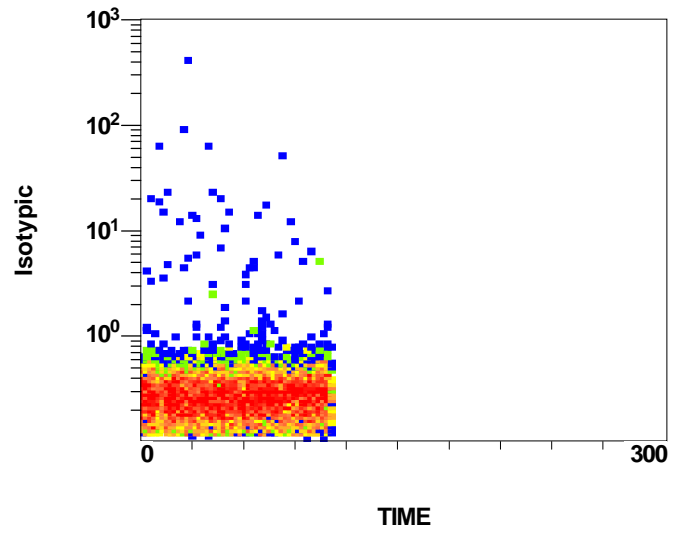
[Ungated] TIME/FL4 Log - ADC



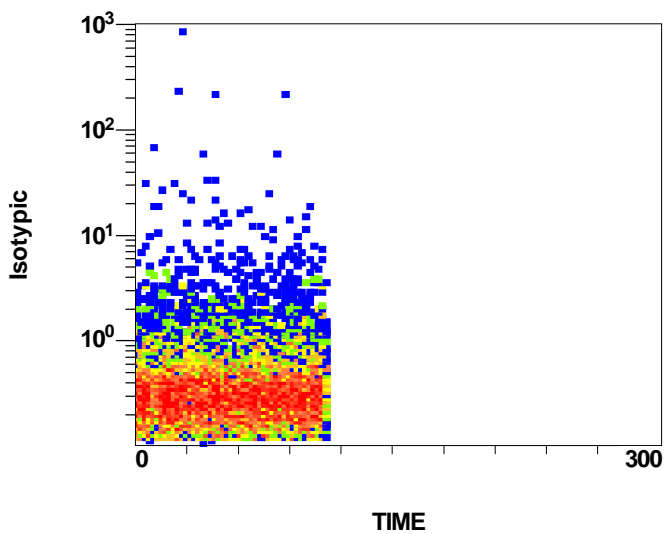
[Ungated] TIME/FS Lin - ADC



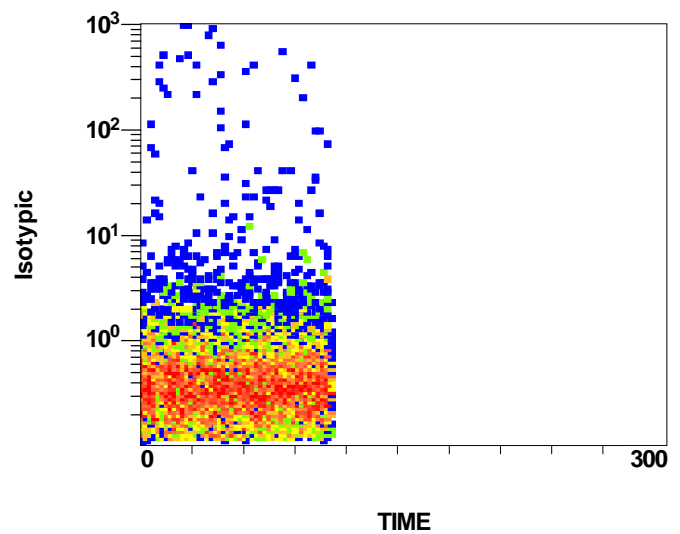
[Ungated] TIME/FL3 Log - ADC



[Ungated] TIME/FL2 Log - ADC



[Ungated] TIME/FL1 Log - ADC



Institution: Aspirus Wausau Hospital Laboratory

Protocol: Isotypic_LY.PRO

Runtime Results

Analysis Date: 24-Jul-2019, 14:08:48

Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16

Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1408_003.LMD

Run Date: 24-Jul-19, 14:06:55

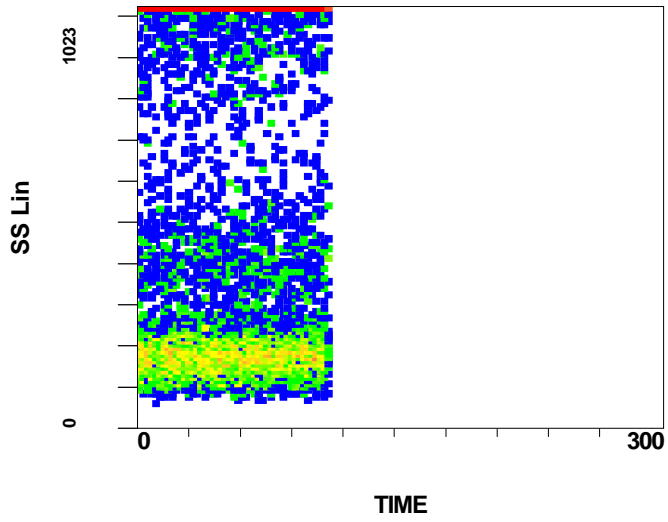
Sample ID: MOLDENHAUER_WESLEY_D_PB

User ID: flow

Acquisition Time/Events: 111.4s / 8481 (MANUAL)

Instrument SN: AS10020 Software Version: CXP 2.2

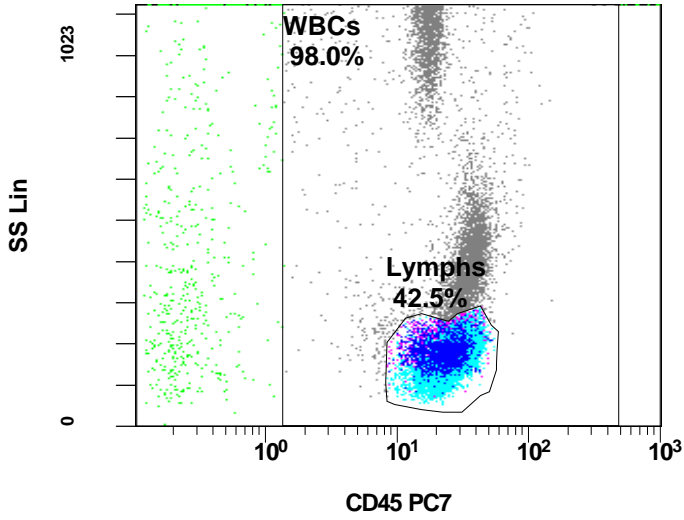
[Ungated] TIME/SS Lin - ADC



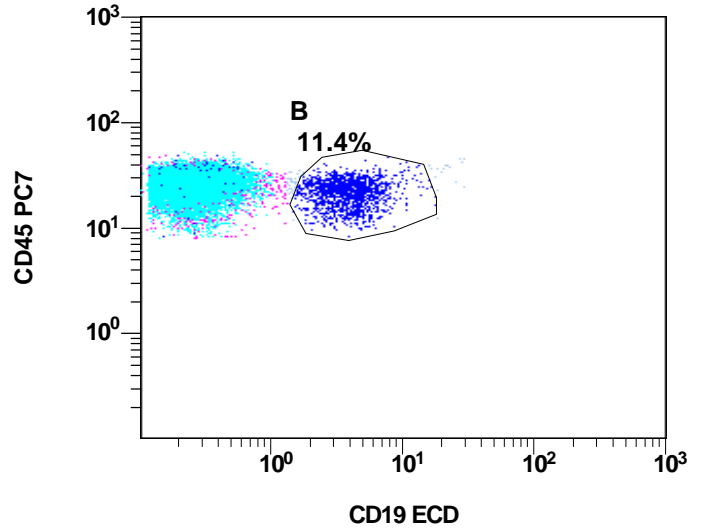
Institution: Aspirus Wausau Hospital Laboratory
 Protocol: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1414_004.PRO
 Listmode Replay: New Protocol
 Analysis Date: 24-Jul-2019, 14:17:50
 Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16
 Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1414_004.LMD

Run Date: 24-Jul-19, 14:09:14
 Sample ID: MOLDENHAUER_WESLEY_D_PB
 User ID: flow
 Acquisition Time/Events: 300.0s / 30734 (PROTOCOL)
 Instrument SN: AS10020 Software Version: CXP 2.2

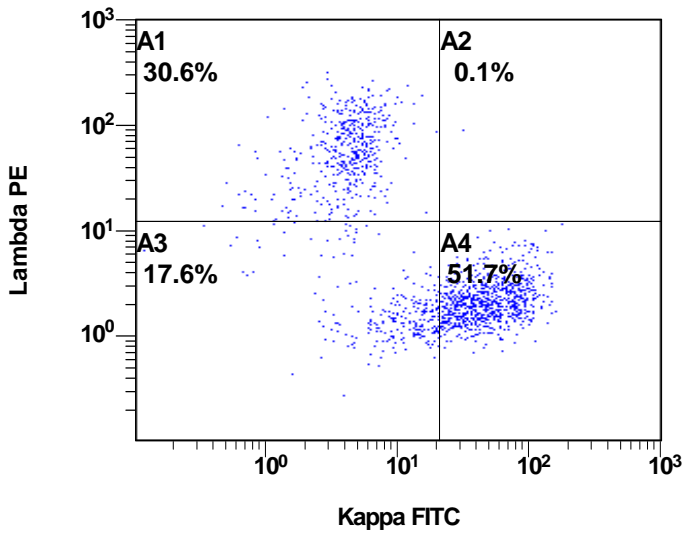
[Ungated] FL5 Log/SS Lin - ADC



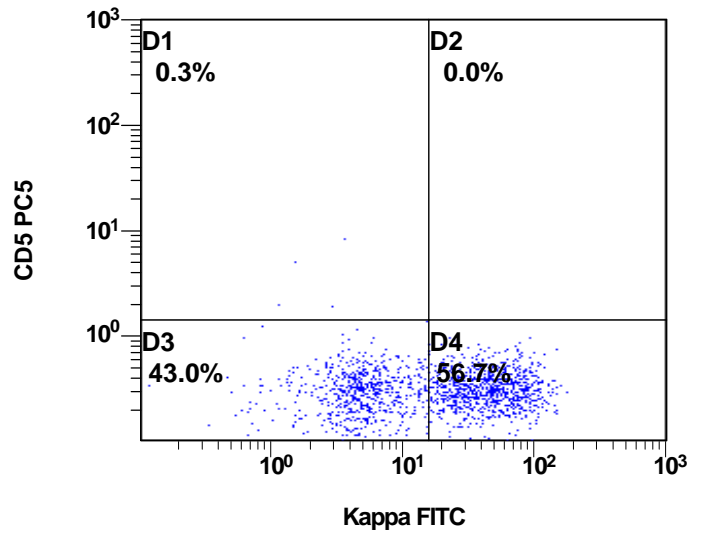
[Lymphs] FL3 Log/FL5 Log - ADC



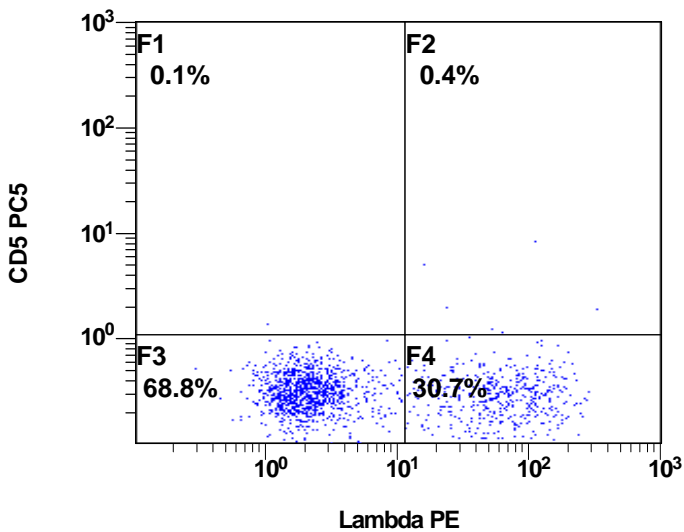
[Lymphs AND B] FL1 Log/FL2 Log - ADC



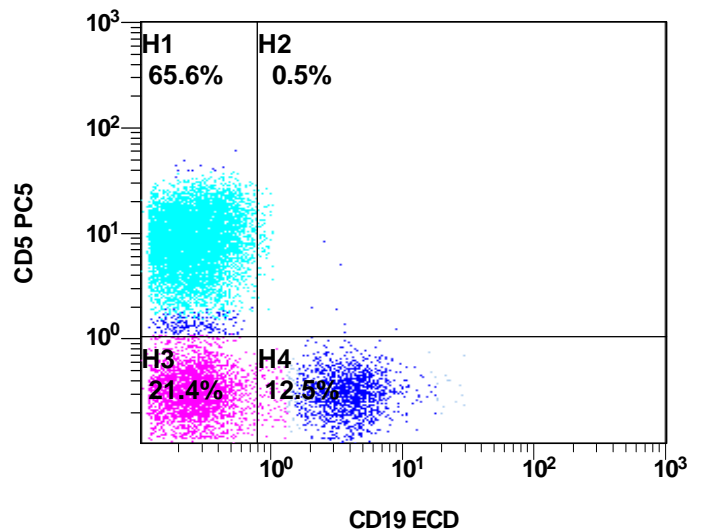
[Lymphs AND B] FL1 Log/FL4 Log - ADC



[Lymphs AND B] FL2 Log/FL4 Log - ADC



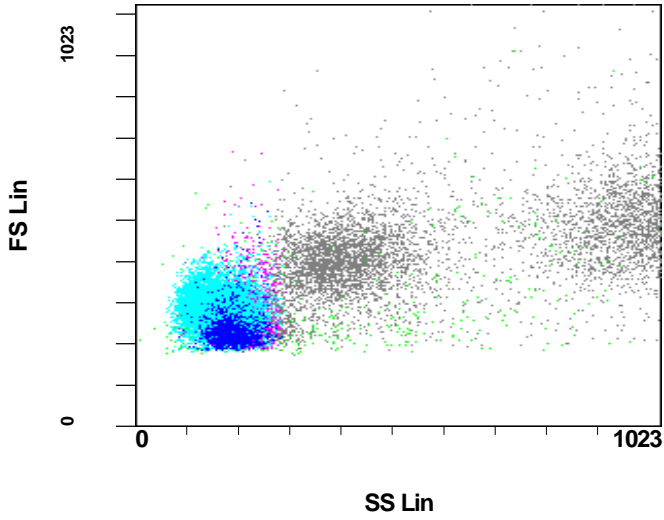
[Lymphs] FL3 Log/FL4 Log - ADC



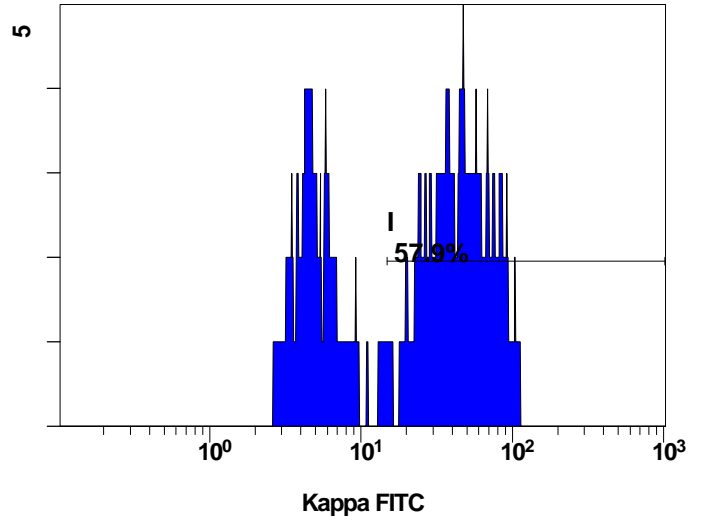
Institution: Aspirus Wausau Hospital Laboratory
Protocol: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1414_004.PRO
Listmode Replay: New Protocol
Analysis Date: 24-Jul-2019, 14:17:50
Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16
Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1414_004.LMD

Run Date: 24-Jul-19, 14:09:14
Sample ID: MOLDENHAUER_WESLEY_D_PB
User ID: flow
Acquisition Time/Events: 300.0s / 30734 (PROTOCOL)
Instrument SN: AS10020 Software Version: CXP 2.2

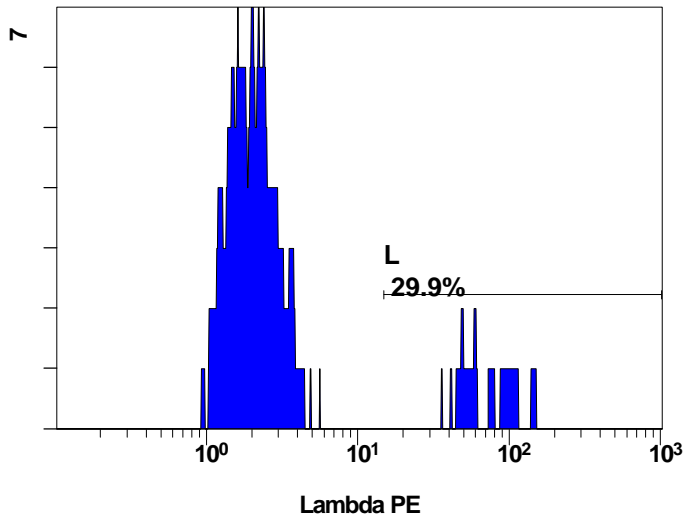
[Ungated] SS Lin/FS Lin - ADC



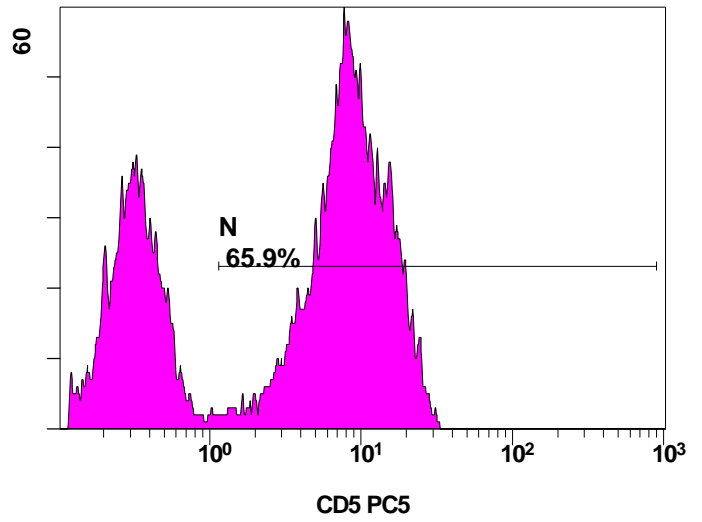
[Lymphs AND B] FL1 Log - ADC



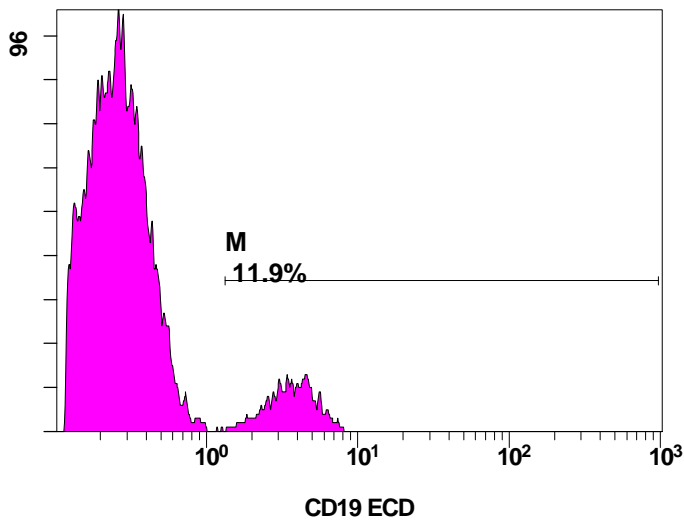
[Lymphs AND B] FL2 Log - ADC



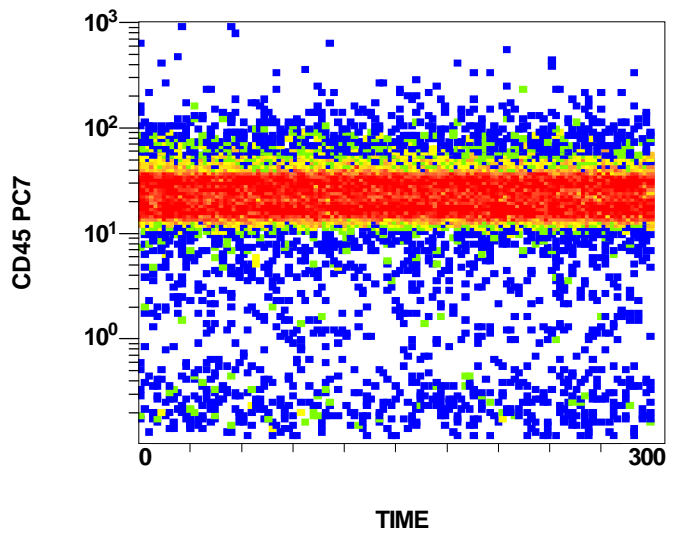
[Lymphs] FL4 Log - ADC



[Lymphs] FL3 Log - ADC



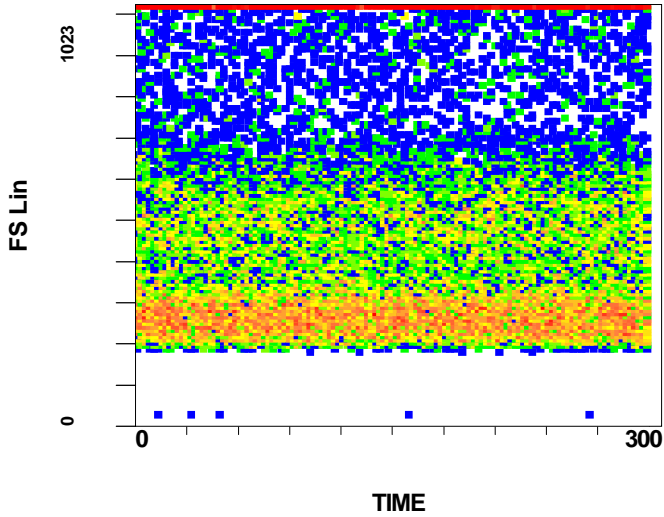
[Ungated] TIME/FL5 Log - ADC



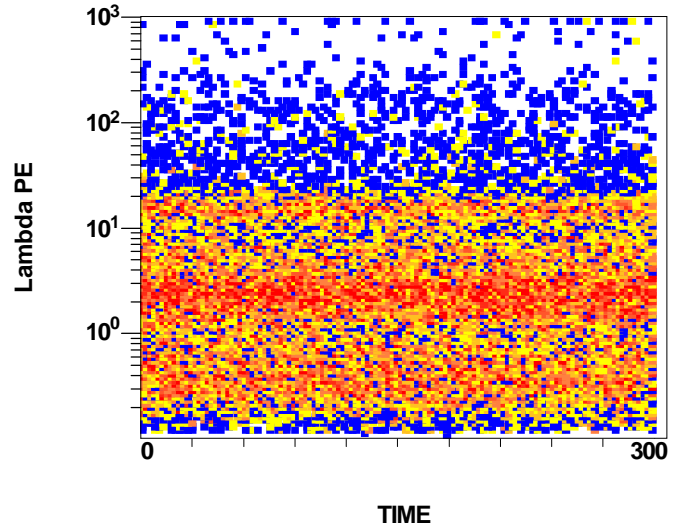
Institution: Aspirus Wausau Hospital Laboratory
Protocol: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1414_004.PRO
Listmode Replay: New Protocol
Analysis Date: 24-Jul-2019, 14:17:51
Settings File: AS 5C 1L Settings.pro, 18-Jul-2019, 18:01:16
Listmode File: MOLDENHAUER_WESLEY_D_PB_607322_W79379_KD_1414_004.LMD

Run Date: 24-Jul-19, 14:09:14
Sample ID: MOLDENHAUER_WESLEY_D_PB
User ID: flow
Acquisition Time/Events: 300.0s / 30734 (PROTOCOL)
Instrument SN: AS10020 Software Version: CXP 2.2

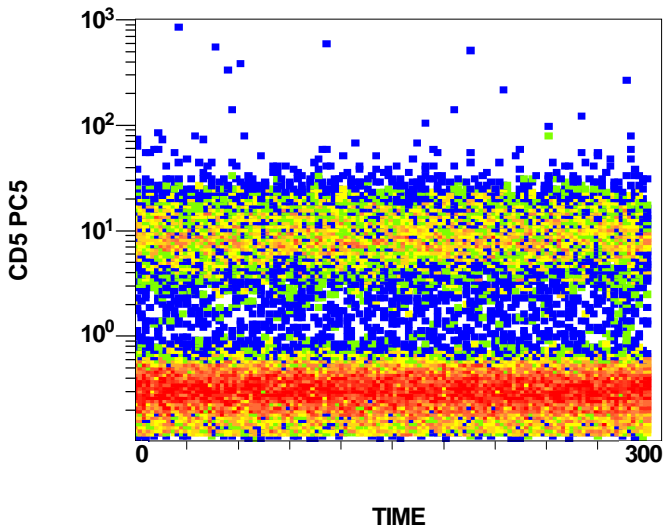
[Ungated] TIME/FS Lin - ADC



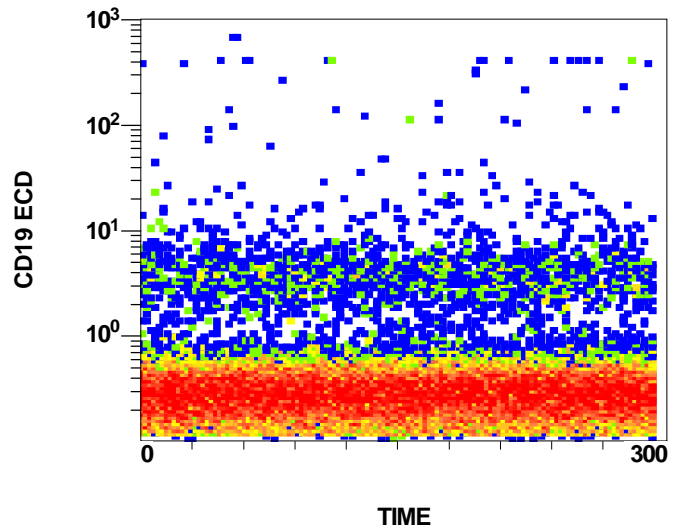
[Ungated] TIME/FL2 Log - ADC



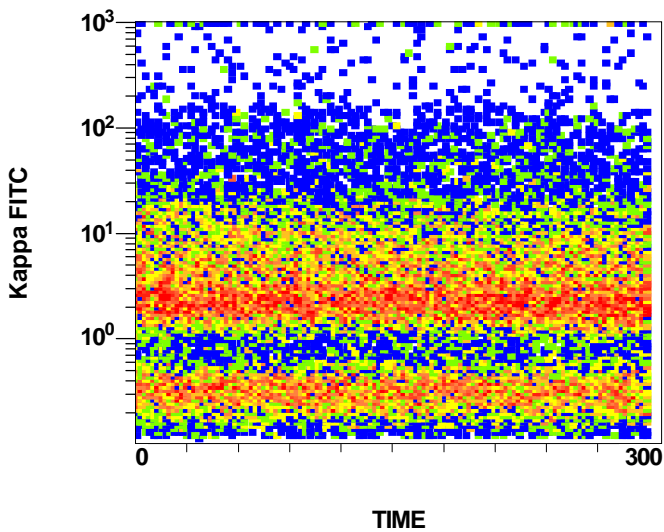
[Ungated] TIME/FL4 Log - ADC



[Ungated] TIME/FL3 Log - ADC



[Ungated] TIME/FL1 Log - ADC



[Ungated] TIME/SS Lin - ADC

