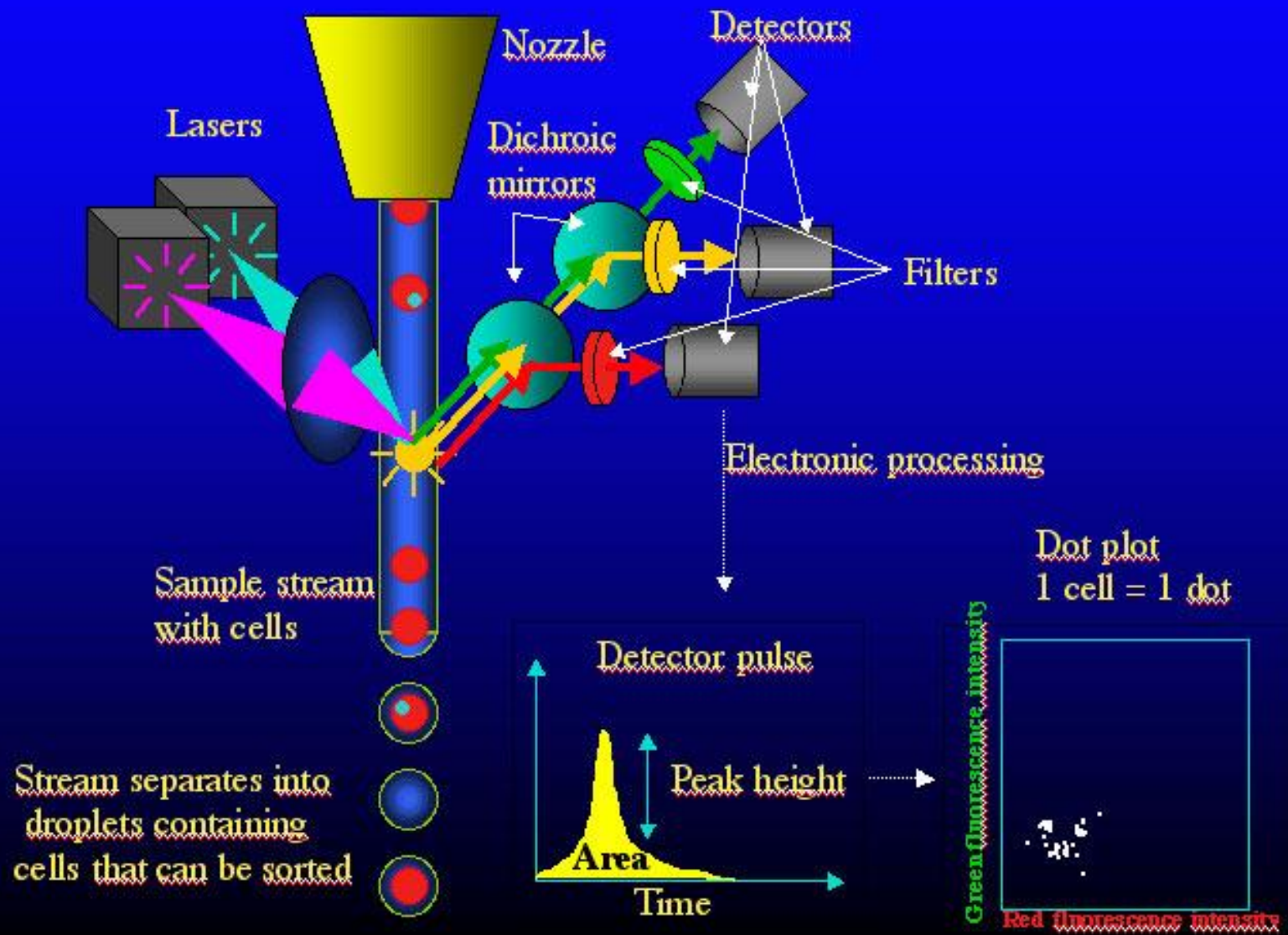




FLOW

Flow cytometry





Flow = gigantikus, többlepcsős, sokszempontú szortírozás – nagyság, cytoplasmatikus granuláció/vakuolizáció és sejtfelszíni/cytoplasmatikus antigének alapján

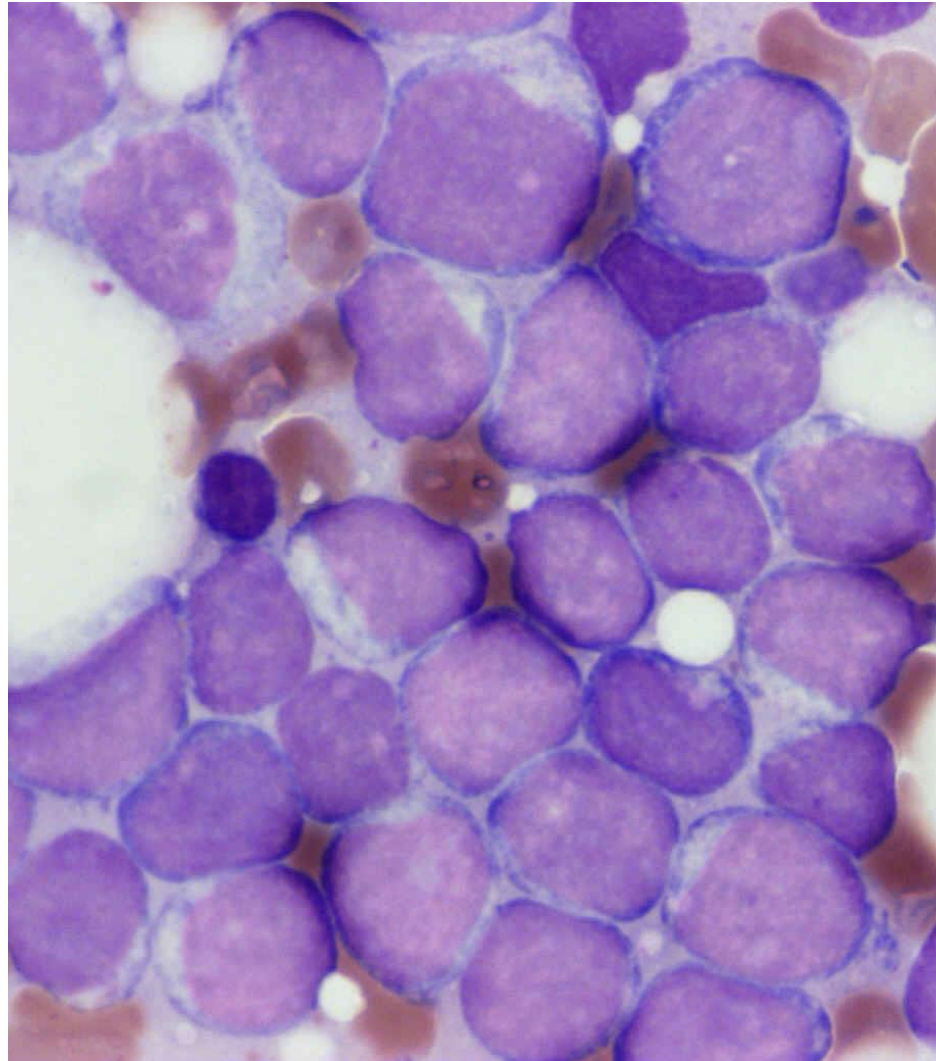
BLAST

**Dim CD45
CD34
CD117
CD99
TDT
Aberráns
kombináció**

+

**SEJTVONAL
specifikus**

**cCD3 - T
CD22 - B
MPO - M**



**Myeloid
markerrek
CD33, CD13,
CD15, CD11b,
CD14, CD68,
CD61, CD36,
CD123 stb**

**Monocyta CD33,
CD14, CD68,
CD15, CD11b**

**B-sejt
CD19, CD79**

**T-sejt
CD7, CD5, CD4,
CD8, CD1a**

**Megakaryocyt
CD61**

**Erythroid CD36,
CD61,
glycophorin**

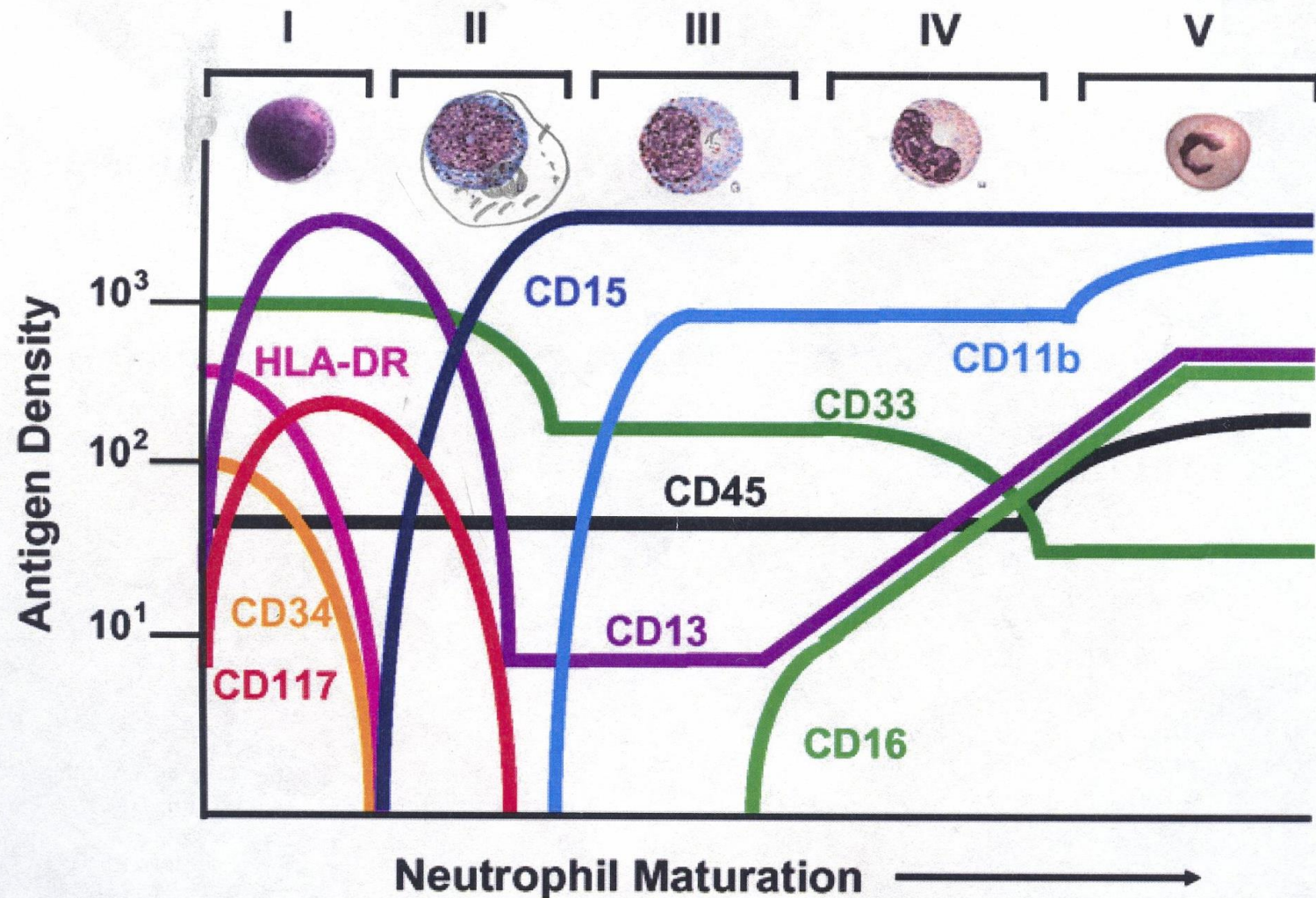
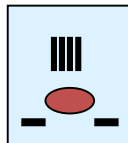
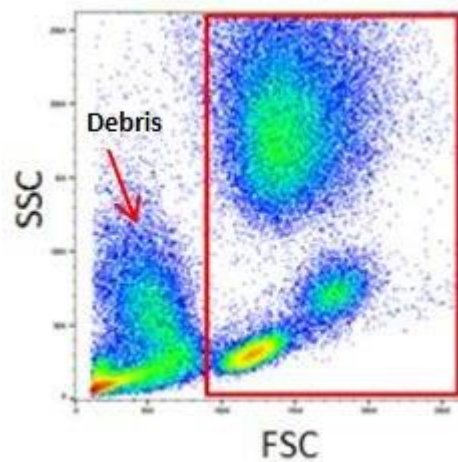
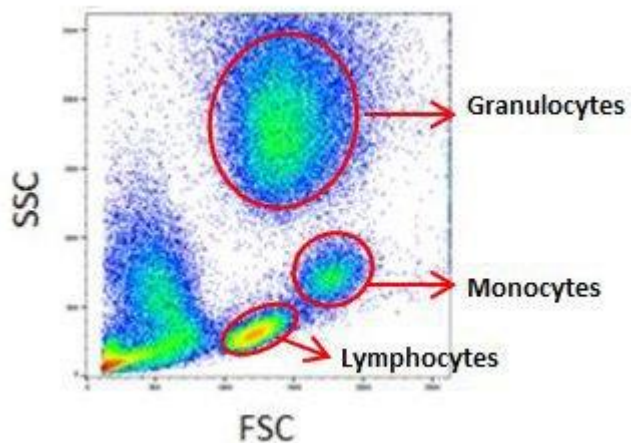
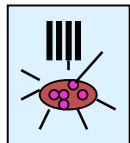


Fig. 1. Intensities of various myeloid antigens by stage of myeloid maturation corresponds to morphologic cytology. Stages are as follows: I myeloblasts, II promyelocytes, III myelocytes, IV metamyelocytes/bands, V neutrophils.

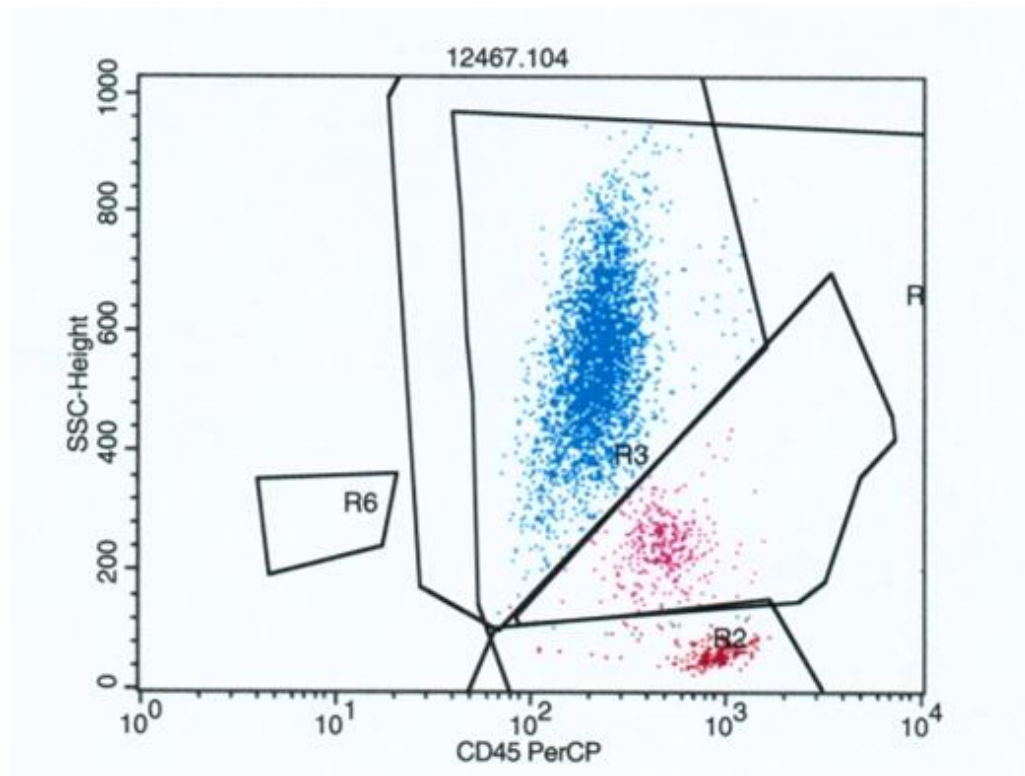


SCREEN - TÁJÉKOZÓDÁS

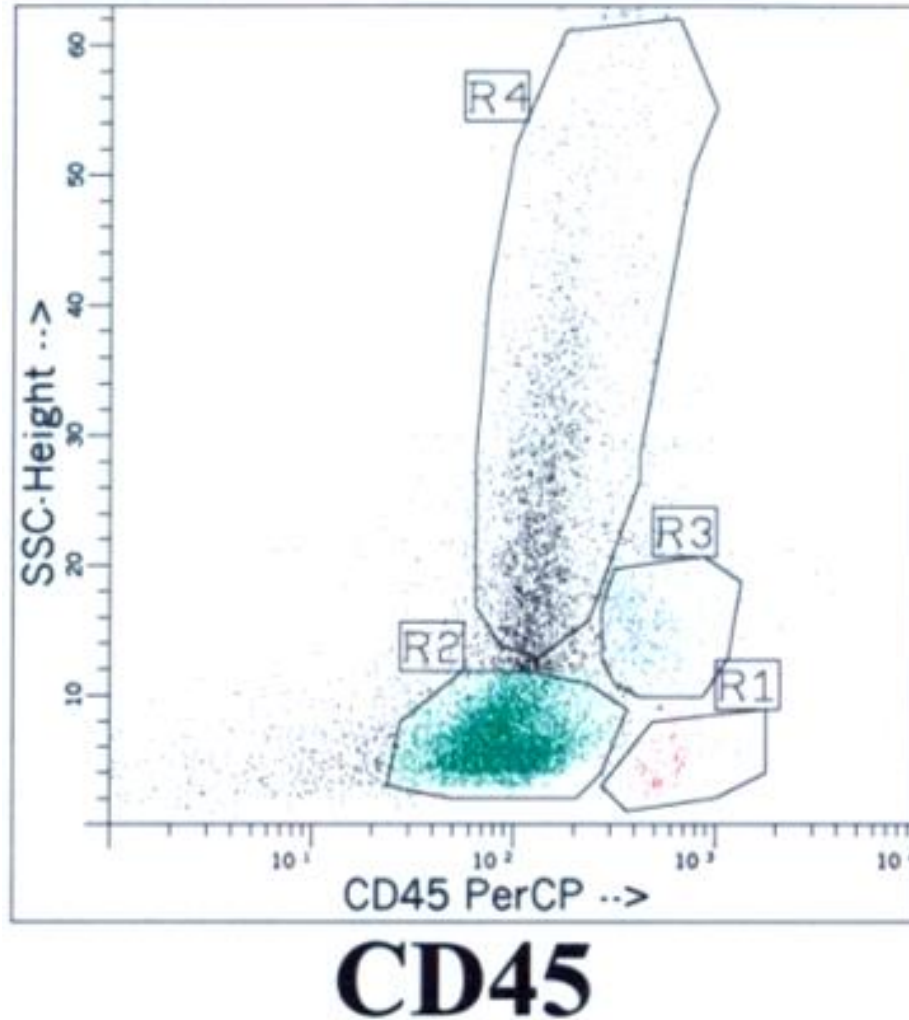


1. festés nélkül előre és oldal szórás alapján

2. oldal és CD45



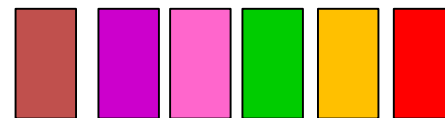
Akut
leu-
kae-
mia



AL Screen –FSC-SSC – CD45 - CD19 – CD7 – sCD3 – CD14 - HLA



panelek



AL Screen (tájékoztató a blastok sejtvonaláról) FSC-SSC – CD45 - CD19 – CD7 – sCD3 – CD14 – HLA

AML 1 – CD45 – CD13 – CD33 - CD11b – CD36 – CD14 – CD56 – CD7 + még két összeállítás

B-ALL 1 – CD19 – CD20 – CD10 – CD22 – sIgM – cIgM – CD38 – CD45 – CD34 – tdt – CD99 +2

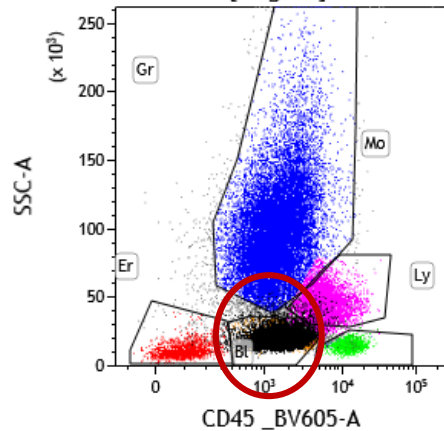
T-ALL 1 – iCD3 – sCD3 – CD4 – CD5 – CD8 – CD1a - CD10 – CD34 – CD99 – tdt - CD38 +2

B-ly 1 – CD19 – CD20 – CD23 – CD5 – CD11c – CD123 – CD10 – s kappa - slambda

T-ly 1 – CD3 – CD4 – CD8 – CD7 – CD5 – CD26 – tcr gamma/delta – CD56 – CD45RO

AML blast (fekete) CD45dim, CD34+, CD117+, CD33+,CD15-, CD36-, HLA+, CD13+

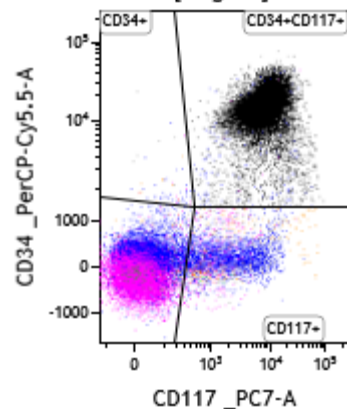
50664ism_AL_20190125_140445
[Singlets]



Gate Number %Total %Gated

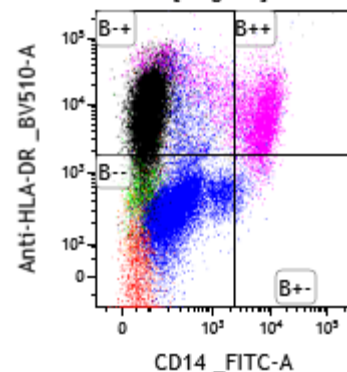
Gate	Number	%Total	%Gated
All	46 752	91,17	100,00
Bl	17 243	33,62	36,88
Er	1 817	3,54	3,89
Gr	19 407	37,84	41,51
Ly	1 329	2,59	2,84
Mo	5 841	11,39	12,49

50664ism_AL_20190125_140445
[Singlets]



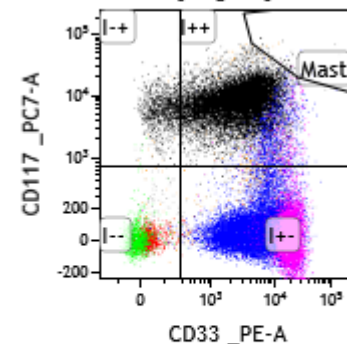
Gate	Number	%Total	%Gated
All	46 752	91,17	100,00
C--	26 142	50,98	55,92
CD117+	3 042	5,93	6,51
CD34+	63	0,12	0,13
CD34+CD117+	17 505	34,13	37,44

50664ism_AL_20190125_140445
[Singlets]



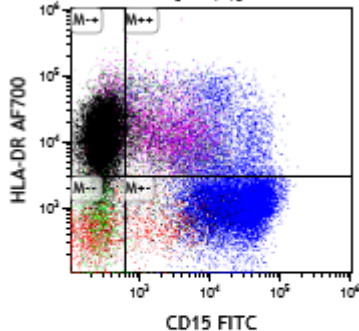
Gate	Number	%Total	%Gated
All	46 752	91,17	100,00
B--	22 179	43,25	47,44
B+-	19 222	37,48	41,11
B+-	621	1,21	1,33
B++	4 730	9,22	10,12

50664ism_AL_20190125_140445
[Singlets]



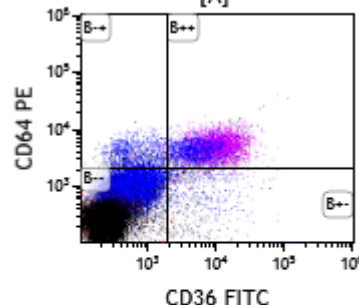
Gate	Number	%Total	%Gated
All	46 752	91,17	100,00
I--	3 101	6,05	6,63
I+-	1 180	2,30	2,52
I+-	23 873	46,55	51,06
I++	18 598	36,27	39,78
Mast	63	0,12	0,13

50664am 00028440.002
[All (1)]



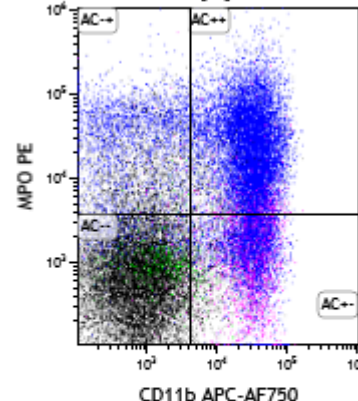
Gate	Number	%Total	%Gated
All	49 153	98,31	100,00
M--	3 445	6,89	7,01
M+-	17 367	34,73	35,33
M+-	18 307	36,61	37,24
M++	10 034	20,07	20,41

50664am 00028439.001
[A]



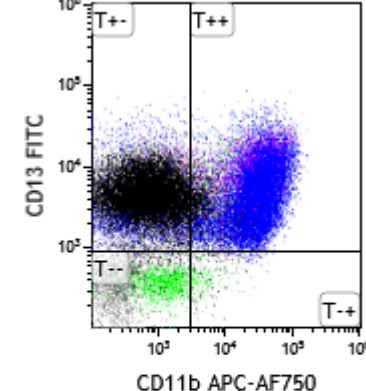
Gate	Number	%Total	%Gated
All	49 909	99,82	100,00
B--	40 468	80,94	81,08
B+-	1 462	2,92	2,93
B+-	2 402	4,80	4,81
B++	5 577	11,15	11,17

50664am 00028441.003
[W]



Gate	Number	%Total	%Gated
All	46 118	92,24	100,00
AC--	20 989	41,98	45,51
AC+-	4 583	9,17	9,94
AC+-	8 076	16,15	17,51
AC++	12 470	24,94	27,04

50664am 00028441.003
[W]



Gate	Number	%Total	%Gated
All	46 118	92,24	100,00
T--	3 166	6,33	6,86
T+-	395	0,79	0,86
T+-	21 340	42,68	46,27
T++	21 217	42,43	46,01

Csontvelő aspirátum
Vér
Szövetszuszpénzió
Liquor
Ascites
Pleura

Friss Edta
Előkészítés, inkubálás 30
perc
Mérés 5 perc
+
Kapuzás,értékelés

Screening 10 000

Lymphoma 20 000

Acut leukaemia 100 000

Követés AL 300 000

MM MRD 1 000 000

Populáció – minimum 30 sejt

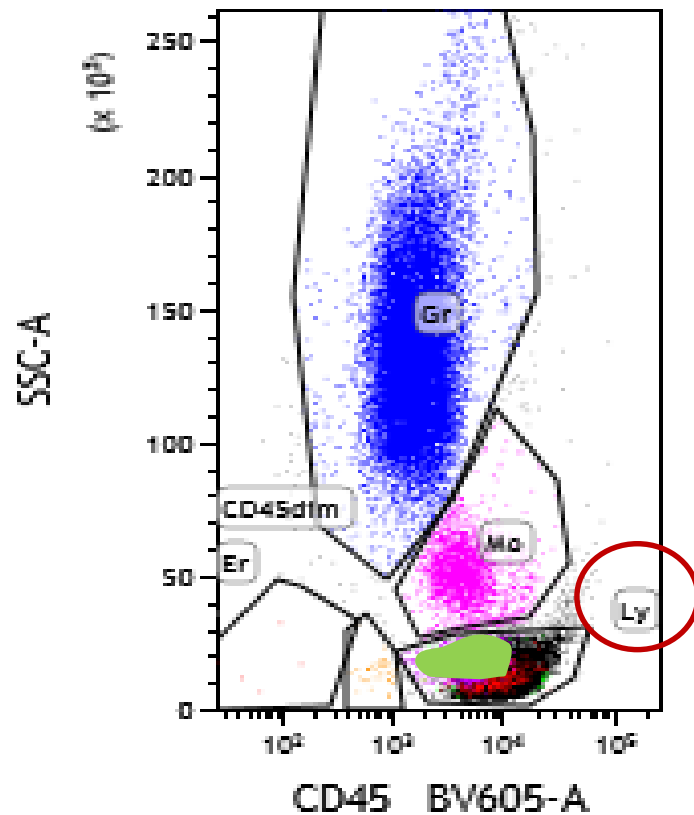
Érzékenység – 300 000 sejt 0, 01%

MRD (minimális reziduális betegség)



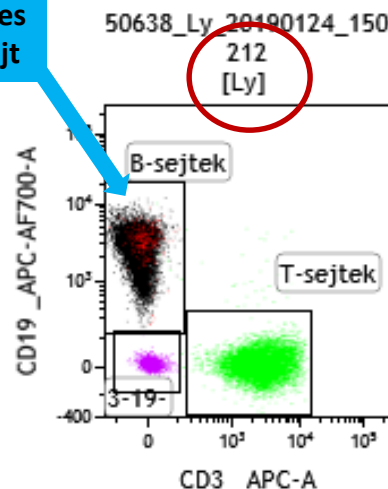
CLL

50638_Ly_20190124_1
50212
[Singlets]



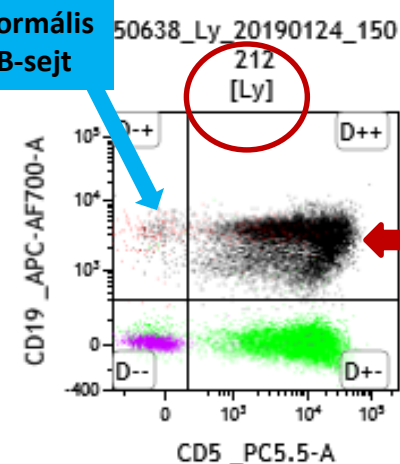
Gate	Number	%Total	%Gated
All	49 071	89,54	100,00
CD45dim	37	0,07	0,08
Er	6	0,01	0,01
Gr	19 150	34,94	39,03
Ly	27 075	49,40	55,18
Mo	2 379	4,34	4,85

Összes
B-sejt

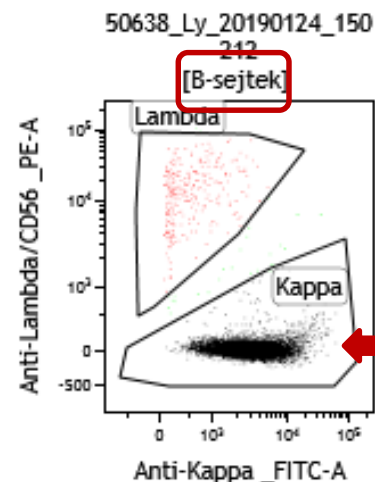


Gate	Number	%Total	%Gated
All	27 075	49,40	100,00
3-19-	1 800	3,28	6,65
B-sejtek	13 660	24,93	50,45
T-sejtek	11 581	21,13	42,77

Normális
B-sejt

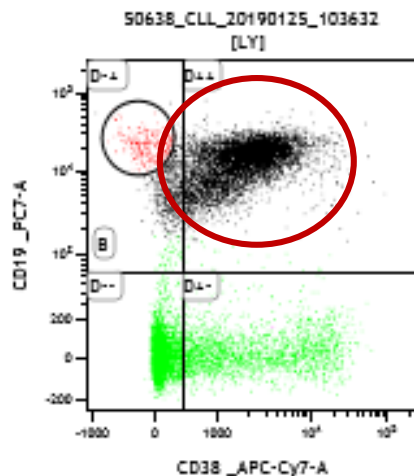


Gate	Number	%Total	%Gated
All	27 075	49,40	100,00
D--	2 271	4,14	8,39
D+	324	0,59	1,20
D+-	11 130	20,31	41,11
D++	13 350	24,36	49,31



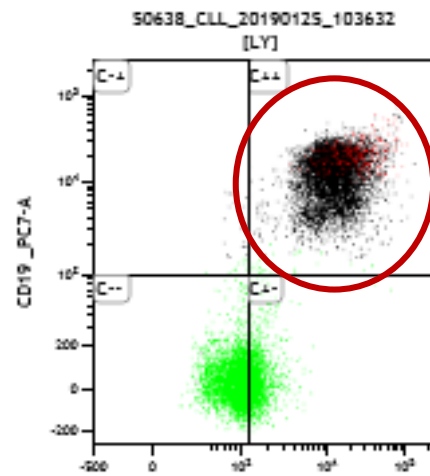
Gate	Number	%Total	%Gated
All	13 660	24,93	100,00
Kappa	13 358	24,37	97,79
Lambda	276	0,50	2,02

kóros
populáció:
CD19+, CD5+,
kappa
monoklonális



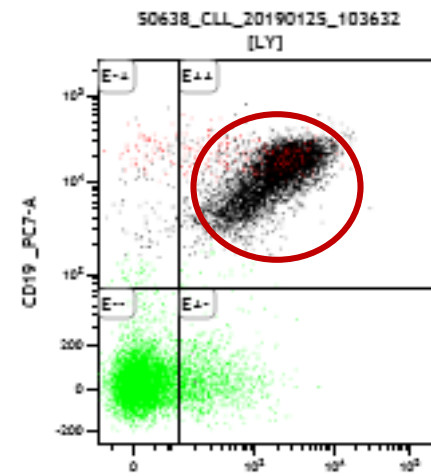
Gate Number %Total %Gated

All	15 886	46,47	100,00
B	258	0,75	1,62
D--	5 149	15,06	32,41
D+-	909	2,66	5,72
D+-	2 194	6,42	13,81
D++	7 634	22,33	48,05



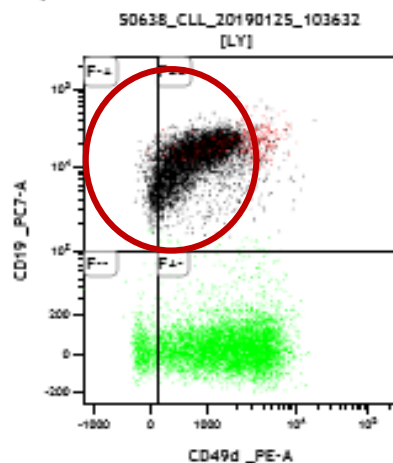
Gate Number %Total %Gated

All	15 886	46,47	100,00
C--	5 146	15,05	32,39
C+-	33	0,10	0,21
C+-	2 230	6,52	14,04
C++	8 477	24,80	53,36



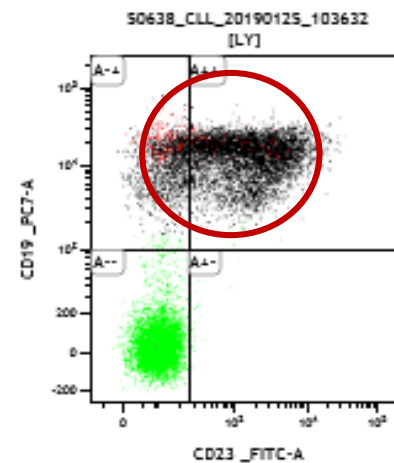
Gate Number %Total %Gated

All	15 886	46,47	100,00
E--	6 301	18,43	39,66
E+-	178	0,52	1,12
E+-	1 048	3,07	6,60
E++	8 359	24,45	52,62



Gate Number %Total %Gated

All	15 886	46,47	100,00
F--	631	1,85	3,97
F+-	457	1,34	2,88
F+-	6 745	19,73	42,46
F++	8 053	23,56	50,69



Gate Number %Total %Gated

All	15 886	46,47	100,00
A--	7 342	21,48	46,22
A+-	1 806	5,28	11,37
A+-	34	0,10	0,21
A++	6 704	19,61	42,20

kóros populáció:
CD19+, CD5+,
kappa
monoklonális,
CD23+.CD20+,
CD49d+,CD20+,
CD200+, CD38+