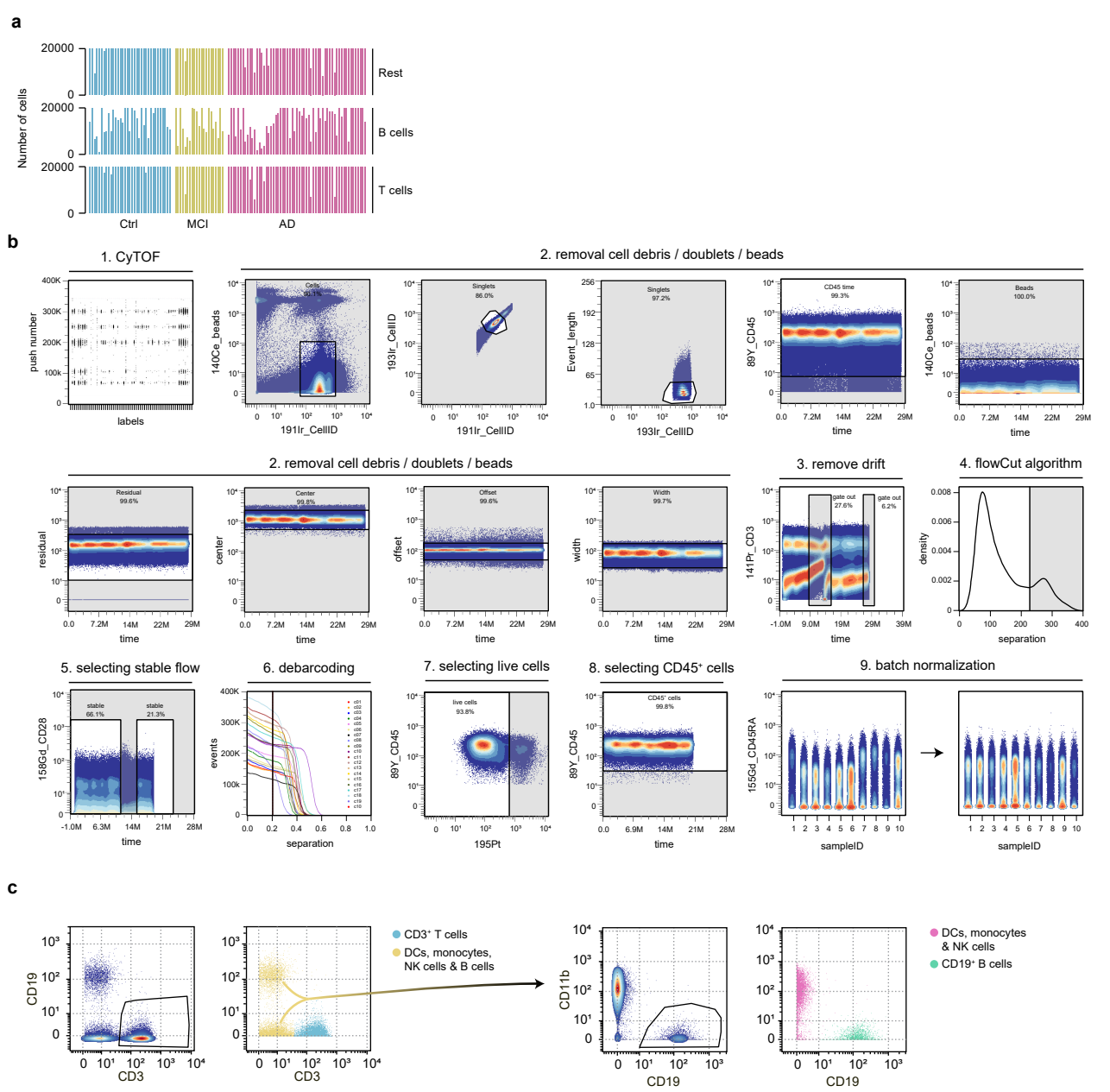
a
Number of cells
20000
0
Rest
B cells
T cells
Ctrl
MCI
AD
b
1. CyTOF
push number
labels
2. removal cell debris / doublets / beads
140Ce_beads
191Ir_CellID
Cells
93.1%
193Ir_CellID
Singlets
86.0%
Event_length
Singlets
97.2%
89Y_CD45
CD45 time
99.3%
time
Beads
100.0%
residual
Residual
99.6%
center
Center
99.8%
offset
Offset
99.6%
width
Width
99.7%
3. remove drift
141Pr_CD3
gate out
27.6%
gate out
6.2%
4. flowCut algorithm
density
separation
5. selecting stable flow
158Gd_CD28
stable
66.1%
stable
21.3%
6. debarcoding
events
separation
7. selecting live cells
live cells
93.8%
195Pt
8. selecting CD45⁺ cells
CD45⁺ cells
99.8%
9. batch normalization
155Gd_CD45RA
sampleID
c
CD19
CD3
CD3⁺ T cells
DCs, monocytes,
NK cells & B cells
CD11b
DCs, monocytes
& NK cells
CD19⁺ B cells