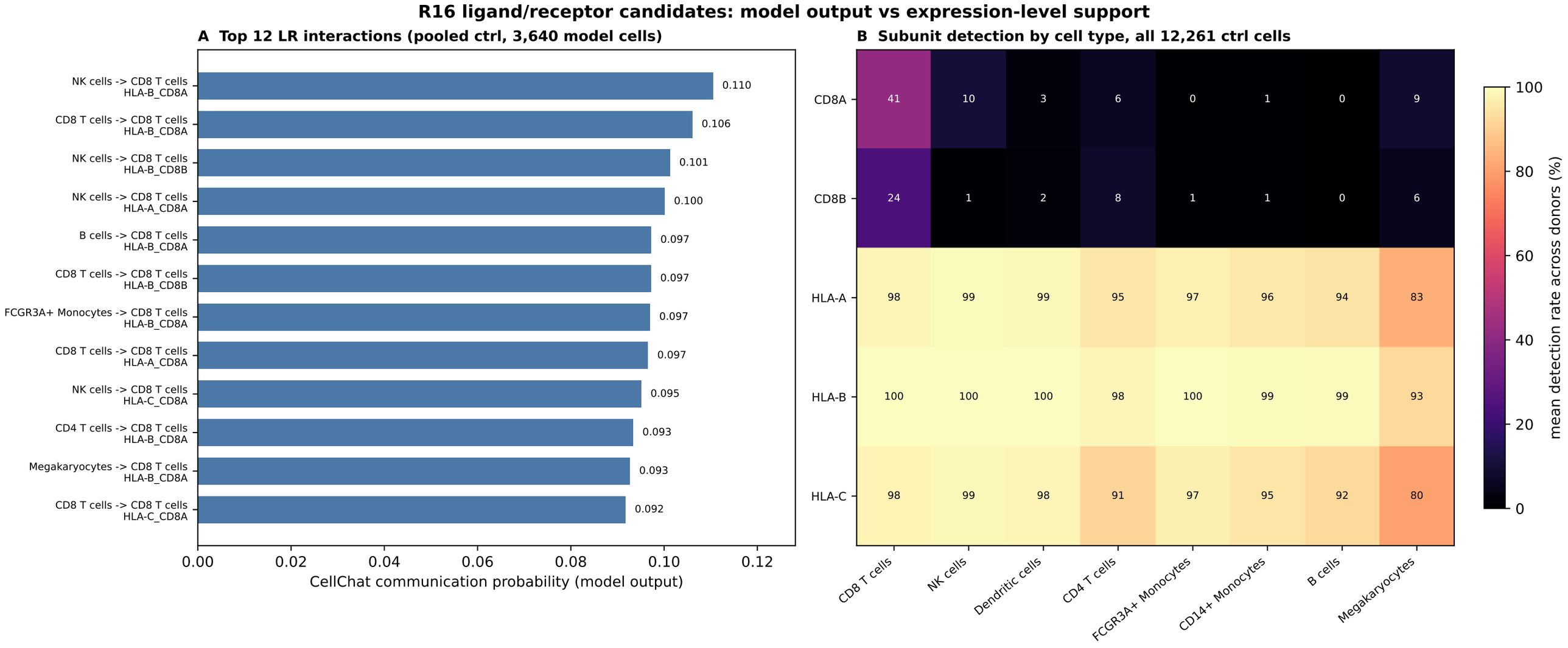
R16 ligand/receptor candidates: model output vs expression-level support
A Top 12 LR interactions (pooled ctrl, 3,640 model cells)
NK cells -> CD8 T cells HLA-B_CD8A
CD8 T cells -> CD8 T cells HLA-B_CD8A
NK cells -> CD8 T cells HLA-B_CD8B
NK cells -> CD8 T cells HLA-A_CD8A
B cells -> CD8 T cells HLA-B_CD8A
CD8 T cells -> CD8 T cells HLA-B_CD8B
FCGR3A+ Monocytes -> CD8 T cells HLA-B_CD8A
CD8 T cells -> CD8 T cells HLA-A_CD8A
NK cells -> CD8 T cells HLA-C_CD8A
CD4 T cells -> CD8 T cells HLA-B_CD8A
Megakaryocytes -> CD8 T cells HLA-B_CD8A
CD8 T cells -> CD8 T cells HLA-C_CD8A
0.110
0.106
0.101
0.100
0.097
0.097
0.097
0.097
0.095
0.093
0.093
0.092
0.00
0.02
0.04
0.06
0.08
0.10
0.12
CellChat communication probability (model output)
B Subunit detection by cell type, all 12,261 ctrl cells
CD8A
CD8B
HLA-A
HLA-B
HLA-C
41 10 3 6 0 1 0 9
24 1 2 8 1 1 0 6
98 99 99 95 97 96 94 83
100 100 100 98 100 99 99 93
98 99 98 91 97 95 92 80
CD8 T cells
NK cells
Dendritic cells
CD4 T cells
FCGR3A+ Monocytes
CD14+ Monocytes
B cells
Megakaryocytes
mean detection rate across donors (%)
100
80
60
40
20
0