Figure 1

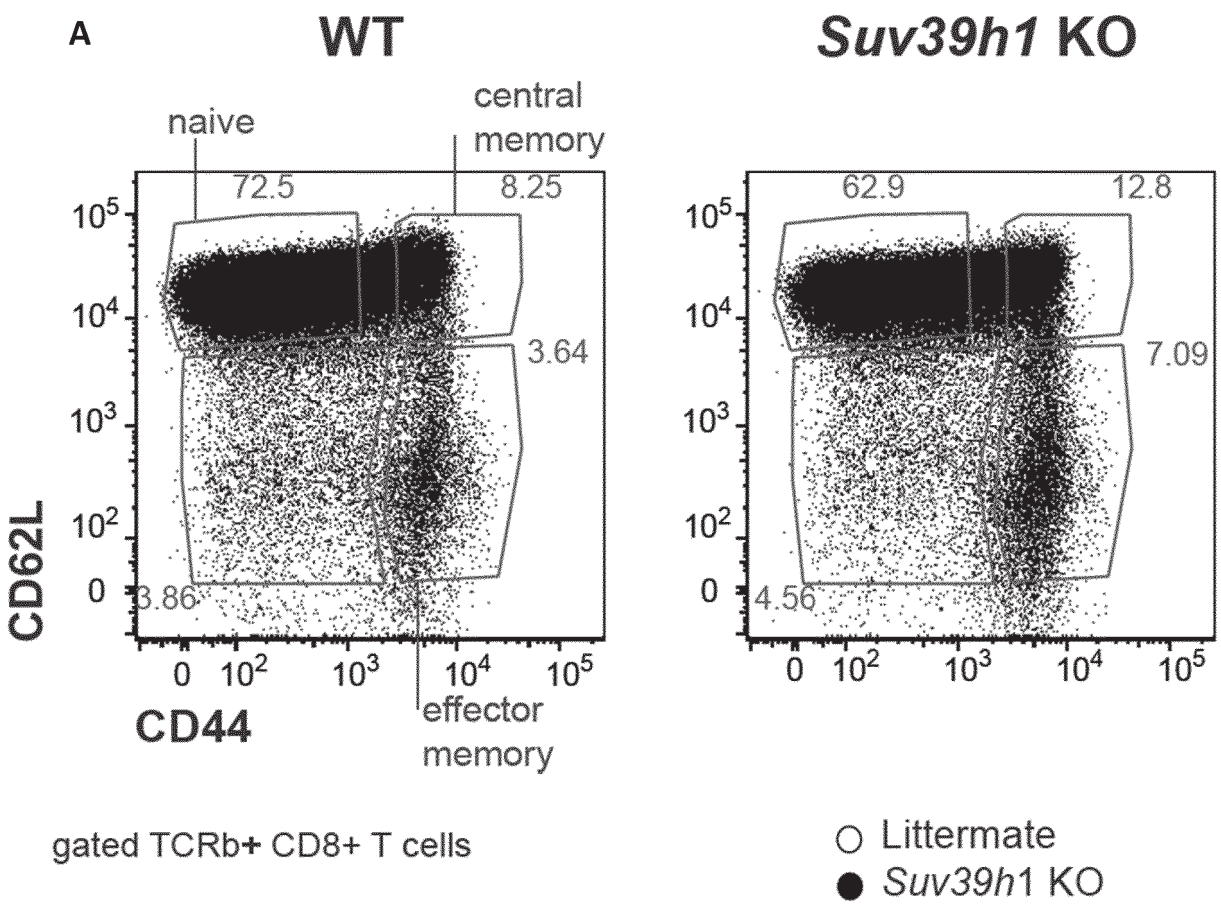

A
WT
Suv39h1 KO
naive
central memory
72.5
8.25
3.64
3.86
62.9
12.8
7.09
4.56
CD62L
CD44
effector memory
gated TCRb+ CD8+ T cells
Littermate
Suv39h1 KO
B
% CD8+ central memory CD62Lhi CD44 hi
LN
mesLN
spleen
BM
blood

Figure 2

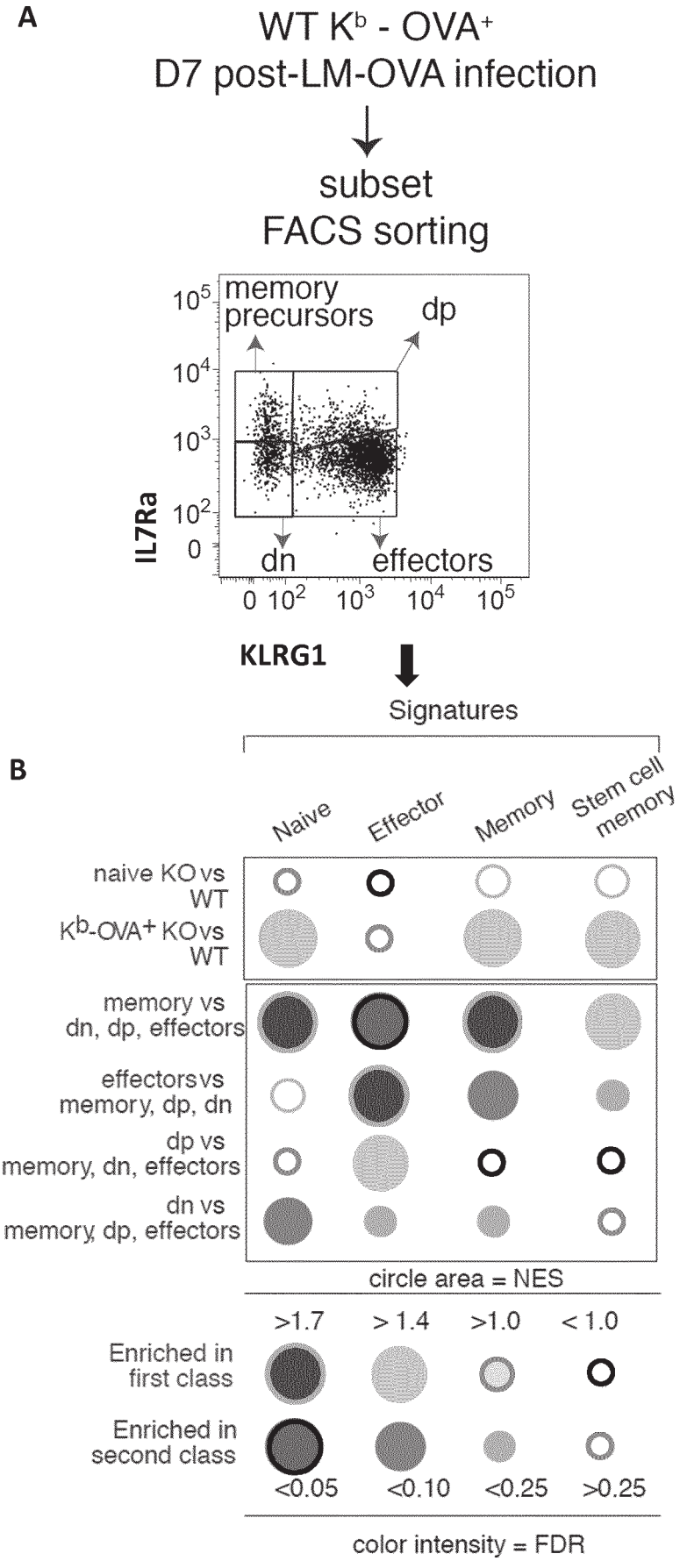

A
WT Kb - OVA+
D7 post-LM-OVA infection
subset
FACS sorting
memory precursors
dp
dn
effectors
IL7Ra
KLRG1
B
Signatures
Naive
Effector
Memory
Stem cell memory
naive KO vs WT
Kb-OVA+ KO vs WT
memory vs dn, dp, effectors
effectors vs memory, dp, dn
dp vs memory, dn, effectors
dn vs memory, dp, effectors
circle area = NES
>1.7
> 1.4
>1.0
< 1.0
Enriched in first class
Enriched in second class
<0.05
<0.10
<0.25
>0.25
color intensity = FDR

Figure 3

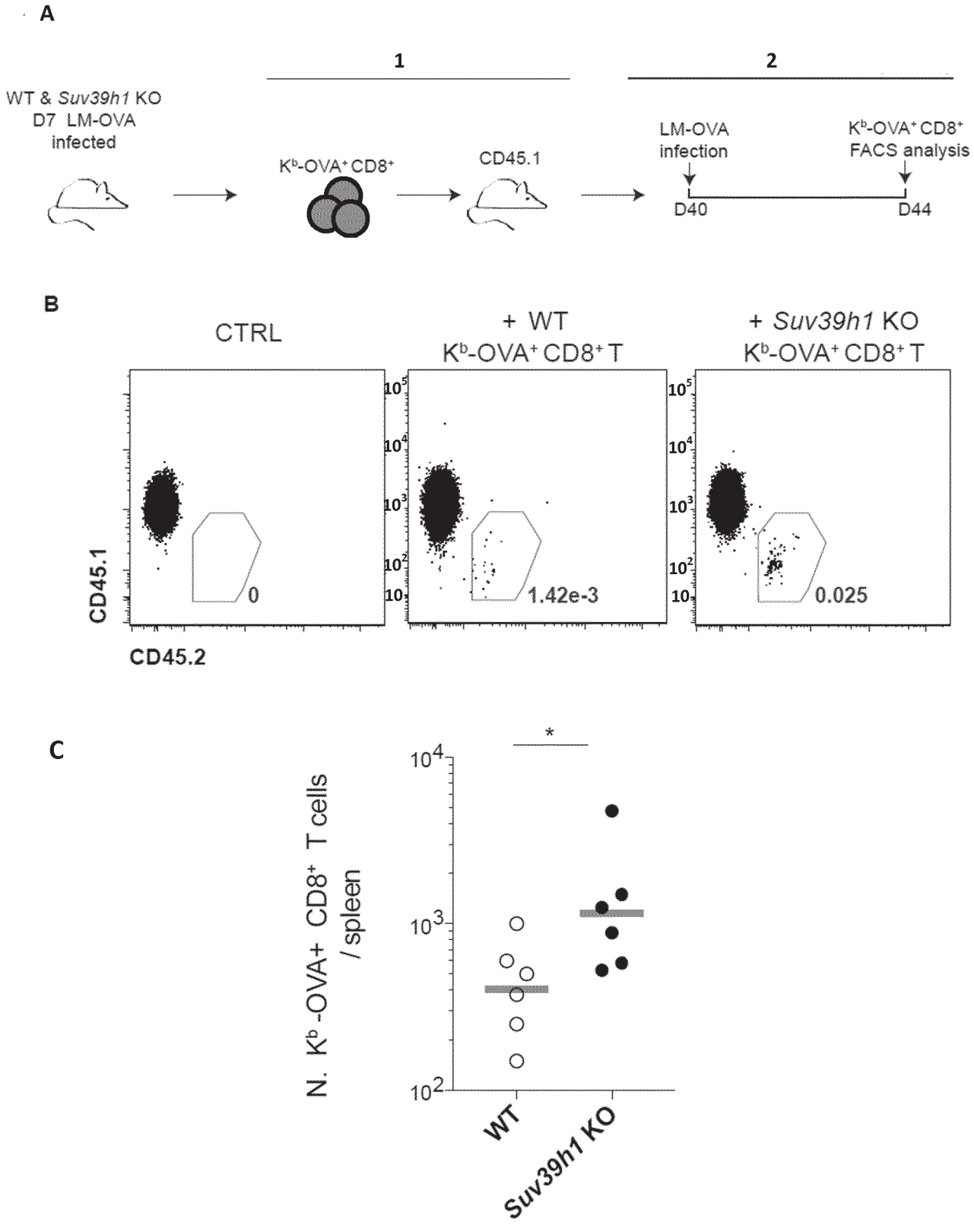
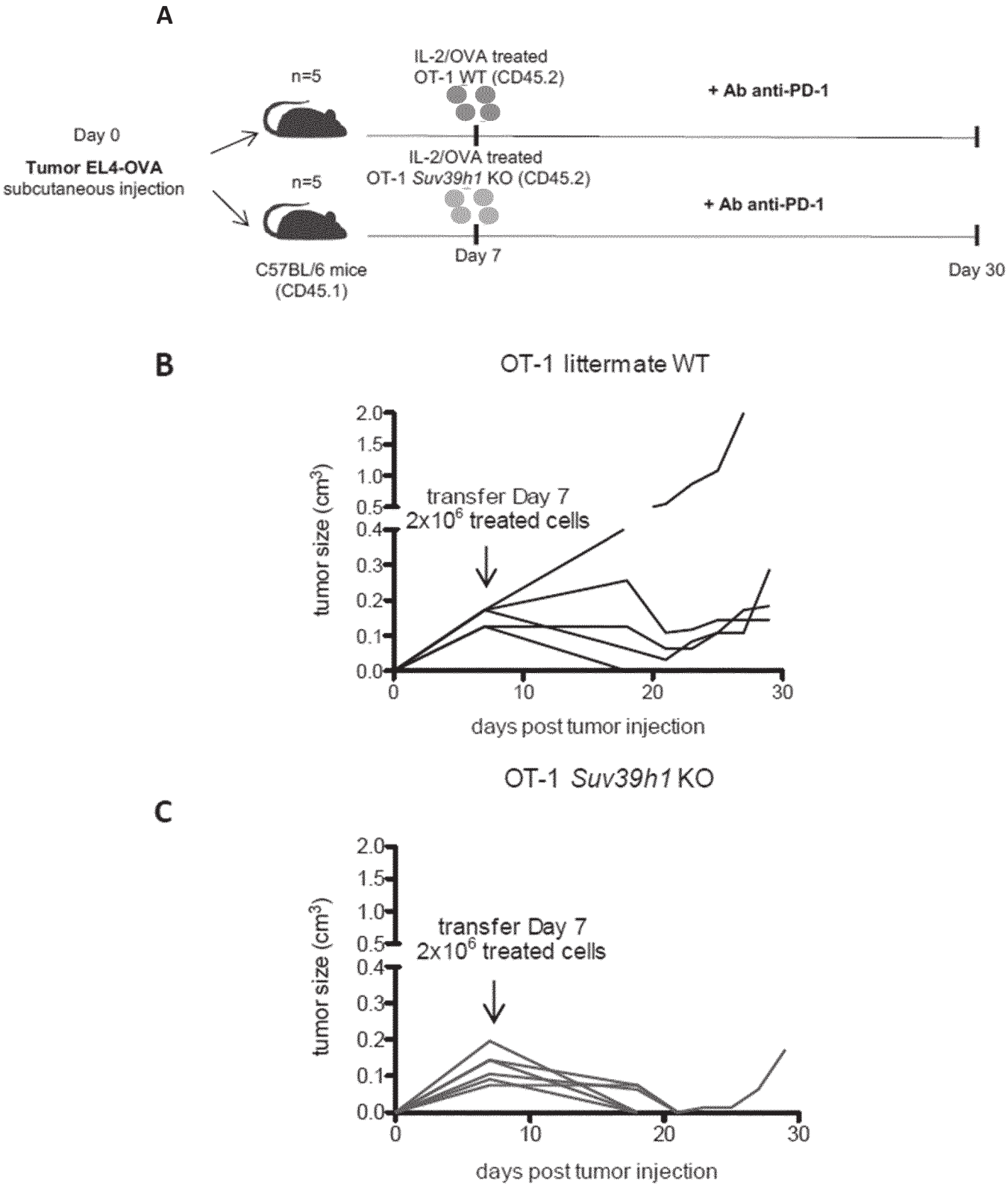

A
1
2
WT & Suv39h1 KO
D7 LM-OVA
infected
Kb-OVA+ CD8+
CD45.1
LM-OVA
infection
Kb-OVA+ CD8+
FACS analysis
D40
D44
B
CTRL
+ WT
Kb-OVA+ CD8+ T
+ Suv39h1 KO
Kb-OVA+ CD8+ T
CD45.1
CD45.2
0
1.42e-3
0.025
C
*
N. Kb-OVA+ CD8+ T cells / spleen
WT
Suv39h1 KO

Figure 4


A
n=5
IL-2/OVA treated
OT-1 WT (CD45.2)
+ Ab anti-PD-1
Day 0
Tumor EL4-OVA
subcutaneous injection
IL-2/OVA treated
OT-1 Suv39h1 KO (CD45.2)
n=5
+ Ab anti-PD-1
Day 7
C57BL/6 mice
(CD45.1)
Day 30
B
OT-1 littermate WT
tumor size (cm3)
transfer Day 7
2x10^6 treated cells
days post tumor injection
OT-1 Suv39h1 KO
C
tumor size (cm3)
transfer Day 7
2x10^6 treated cells
days post tumor injection