

Figure 1. Labeling and chase of mammary glands (MG). GFP-immunofluorescence of whole mount (left) and sectioned (middle and right) MGs after they have been chased for 0 (left; whole mount), 4 (middle; 100x) and 7 (right; 100x) weeks. Nuclei were counterstained with DAPI.

Gene	MG+/MG-	MG+/LG+	MG+/LG-
Type I Membrane Proteins			
Dll1	2.6	8.1	22.9
(qPCR)	(4.8)	(20)	(39.4)
Jag2	2.4	5.1	5.9
Nrcam	2.3	3.4	3.7
Pcdhgc4	2.4	4.5	4.2
Ptprb	2.0	14.3	15.5
Ptprd	2.4	6.3	5.0
Tgfbr3	3.4	3.6	7.0
Tmem58	2.1	2.8	2.3
Type II Membrane Proteins			
Cadm1	2.1	3.9	5.0
Dkc1	2.1	3.2	2.8
Enpp1	2.1	3.7	2.9
Fhod3	3.4	12.2	20.8
Galnt4	2.3	2.6	3.8
Gnptab	2.4	3.7	2.9
Odz2	2.0	8.9	7.5
Syt11	3.1	6.3	6.5
Zswim6	2.2	3.5	3.6
Multipass Transmembrane Proteins			
Atp10d	2.3	3.3	3.2
Gja4	4.6	11.4	22.6
Gpr125	2.1	3.9	5.8
Pla2g7	4.9	13.7	9.3
Prkg1	2.6	5.2	5.2
Slc2a4	2.7	9.8	8.1
Tmem178	7.2	11.5	9.8
Trpv4	3.1	4.8	8.0

Table I. Relative expression of transmembrane proteins in luminal LRC (LG+) and nonLRC (LG-) and basal LRC (MG+) and nonLRC (MG-).

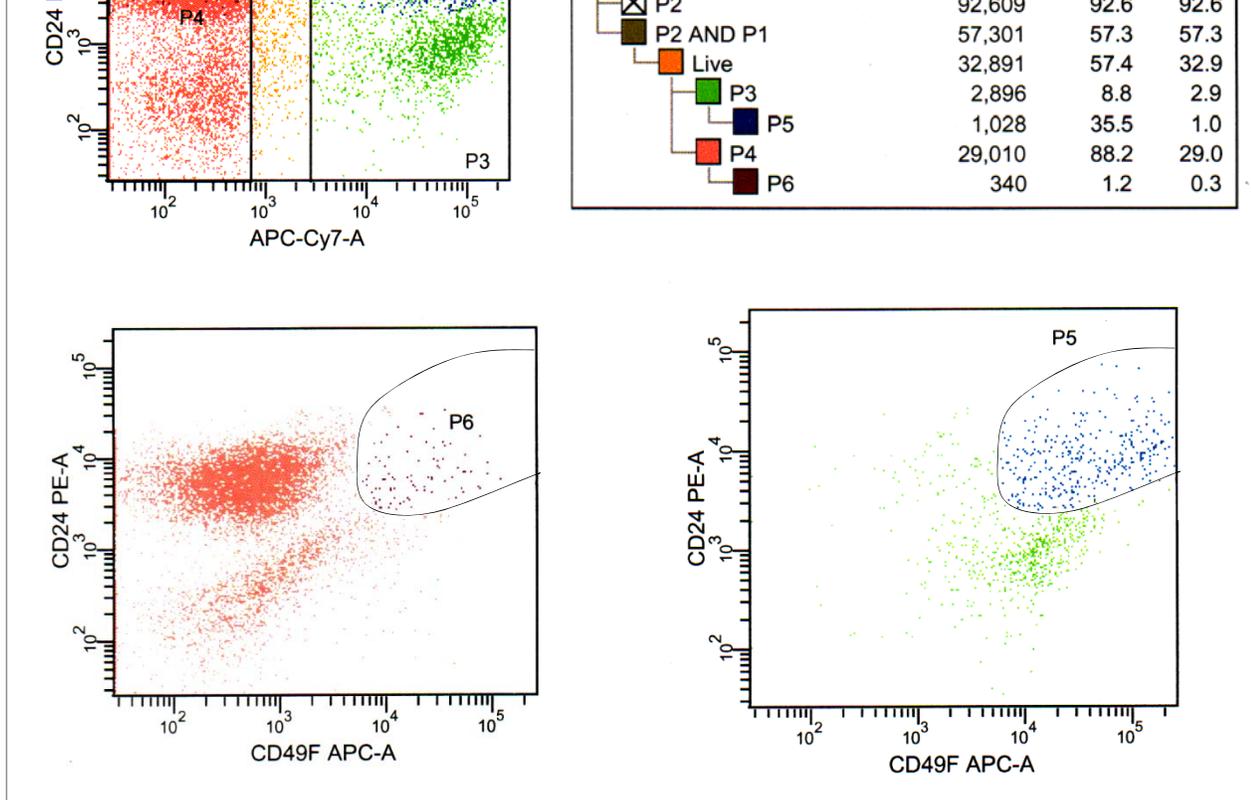
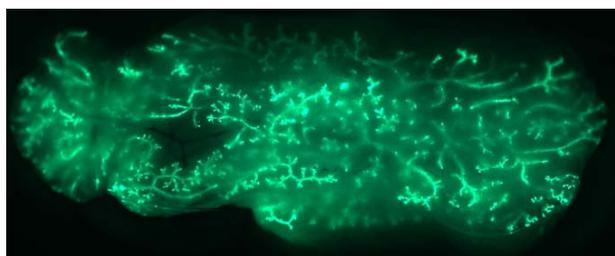


Figure 2. Isolation of Dll1+ cells from C57Bl/6 background females. P6 population represents Dll1- and P5 Dll1+ cells.



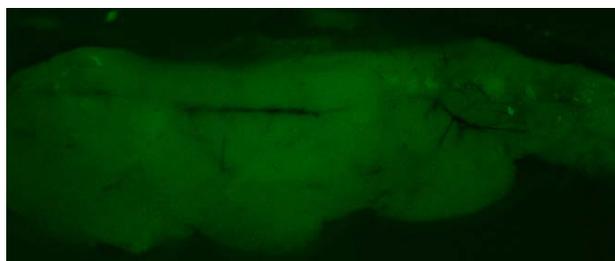
Donor mouse: 8-10 wk-old CMV-GFP (C57Bl/6 background)
Recipient mice: 3 wk-old C57Bl/6 females

250 cells/fat pad

CD24⁺CD49f⁺DII1⁺

Exp.1: 3/6

Exp.2: 9/26



CD24⁺CD49f⁺DII1⁻

Exp.1: 0/6

Exp.2: 0/16

Figure 3. Fat pad assays with CD24⁺/CD49f⁺/DII1⁻ (P6) and CD24⁺/CD49f⁺/DII1⁺ (P5) populations isolated from CMV-GFP mice.

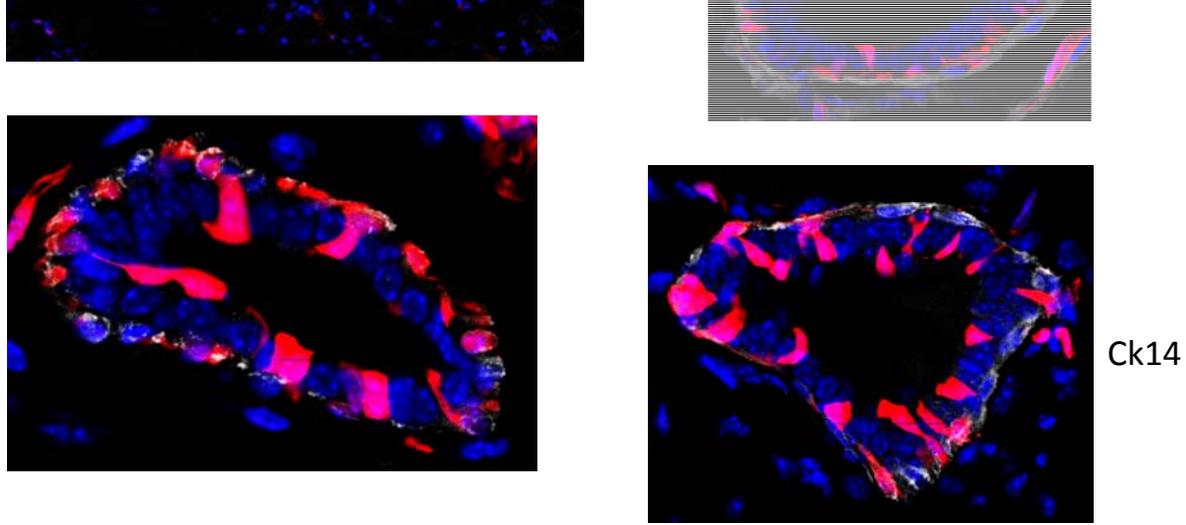
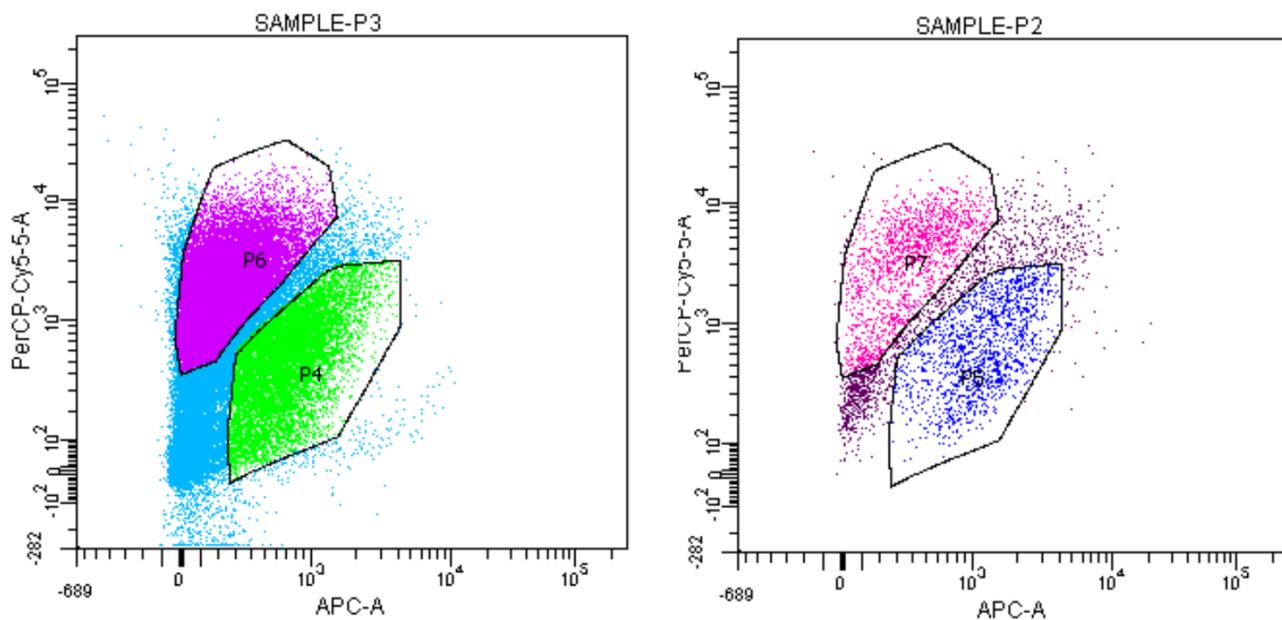


Figure 4. Eight week old Dll1-Cre/egfp; ROSA-tdTomato virgin female mice were treated with Tamoxifen. Sections were counterstained with Ck5/6 (top right) or Ck14 (bottom row) to mark the basal layer (white fluorescence).

Donor: Dll1creER;Rosa-td-tomato (+Tamoxifen)
 Recipient: 3 wk-old NOD/SCID



Population	Rate
P4: Myoepithelial Dll1-	0/10
P5: Myoepithelial Dll1+	5/8
P6: Luminal Dll1-	0/10
P7: Luminal Dll1+	0/10

Figure 5. Isolation of Dll1 positive (Dll1+) cells from Dll1 cre/egfp