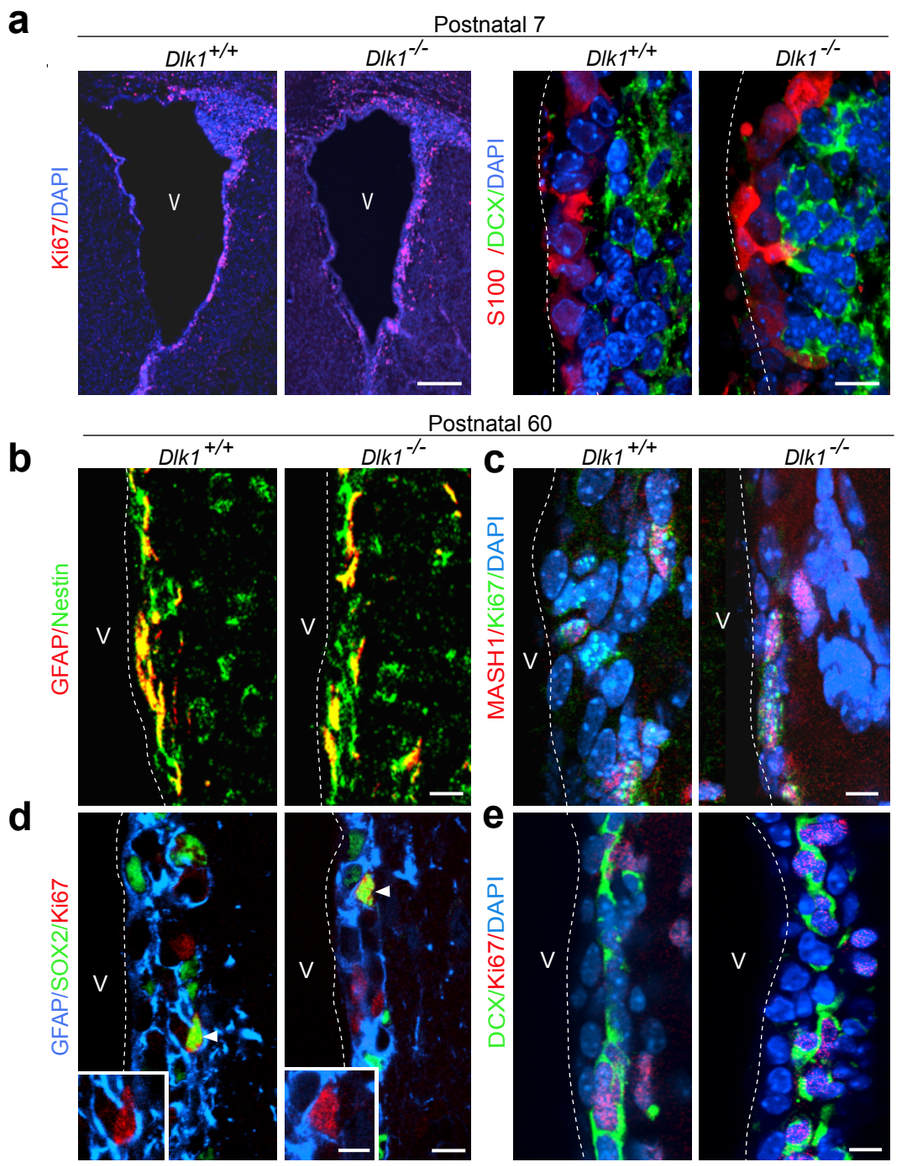
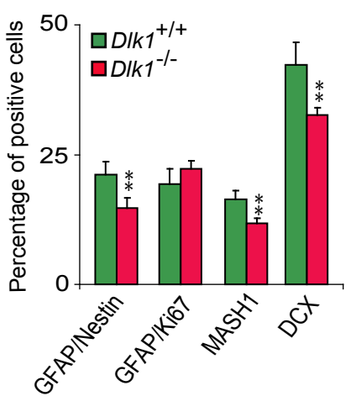
Supplementary Figure 3





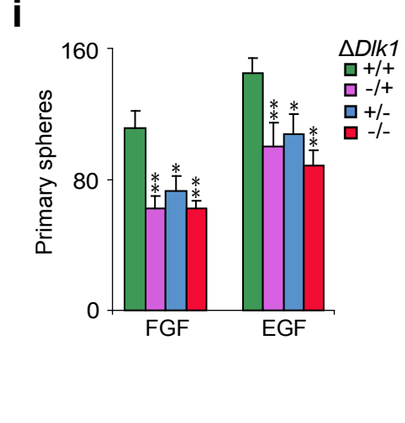
g

OB Neurogenesis (number of cells)		WT	Dlk1-/-
CR/LRC+	granular	5.5 ± 0.5	1.9 ± 0.9**
	periglomerular	3.1 ± 0.9	0.5 ± 0.2**
TH/LRC+	periglomerular	2.1 ± 0.7	0.9 ± 0.4**

LRC+	ΔDlk1	+/+	-/+	+/-	-/-
granular		13.7 ± 1.4	7.5 ± 0.9**	6.3 ± 0.7**	7.6 ± 1.4**
periglomerular		1.8 ± 0.2	0.5 ± 0.3**	0.5 ± 0.4**	0.6 ± 0.5**

h

ΔDlk1	+/+	-/+	+/-	-/-
Brain weight (mg)	0.47 ± 0.01	0.46 ± 0.01	0.47 ± 0.03	0.45 ± 0.03
SVZ volume (mm3)	3.9 ± 0.1	3.7 ± 0.1	3.9 ± 0.3	4.1 ± 0.2



Supplementary Figure 3. An increase in postnatal stem cell cycling parameters gives rise to exhaustion of the stem cell pool in the adult. (**a**) Immunohistochemistry for Ki67 (red) or DCX (green) on coronal sections of SVZ from wild-type and *Dlk1*$^{-/-}$ mice at postnatal age 7 (left panel). Immunohistochemistry for DCX (green) and S100? (red) at the same stage (right panel). (**b**) Immunohistochemistry for GFAP (red) and Nestin (green) within the adult SVZ of wild-type and *Dlk1*$^{-/-}$ mice. (**c**) Immunohistochemistry for transit amplifying progenitors (TAP), showing MASH1 (red) and Ki67 (green). (**d**) Immunohistochemistry for GFAP (blue), SOX2 (green) and Ki67 (red) within the adult SVZ of wild-type and *Dlk1*$^{-/-}$ mice. Insets show high magnification images. (**e**) Immunohistochemistry for DCX (green) and Ki67 (red) in the adult SVZ of wild-type and *Dlk1*$^{-/-}$ mice. DAPI (blue) was used for counterstaining. (**f**) Percentage of different cell types within the adult SVZ of wild-type and *Dlk1* $^{-/-}$ mice. (**g**) Table showing the number of LRC/TH+ or LRC/CR+ neurons in *Dlk1* mutant OB. (**h**) Table showing brain weight (mg) and SVZ volume (mm^3) in *Dlk1*$^{+/+}$, *Dlk1*$^{-/+}$, *Dlk1*$^{+/-}$ and *Dlk1*$^{-/-}$ adult mice. No changes in brain size were observed. (**i**) Primary spheres formed from SVZs of different *Dlk1* mutant mice in the presence of EGF or FGF. *p<0.05, **p<0.01. Error bars, s.e.m of of at least four mice per genotype. Scale bars: in a 200 μm (right panel in a, 20 μm); in b, 20 μm; in c-e, 20 μm.