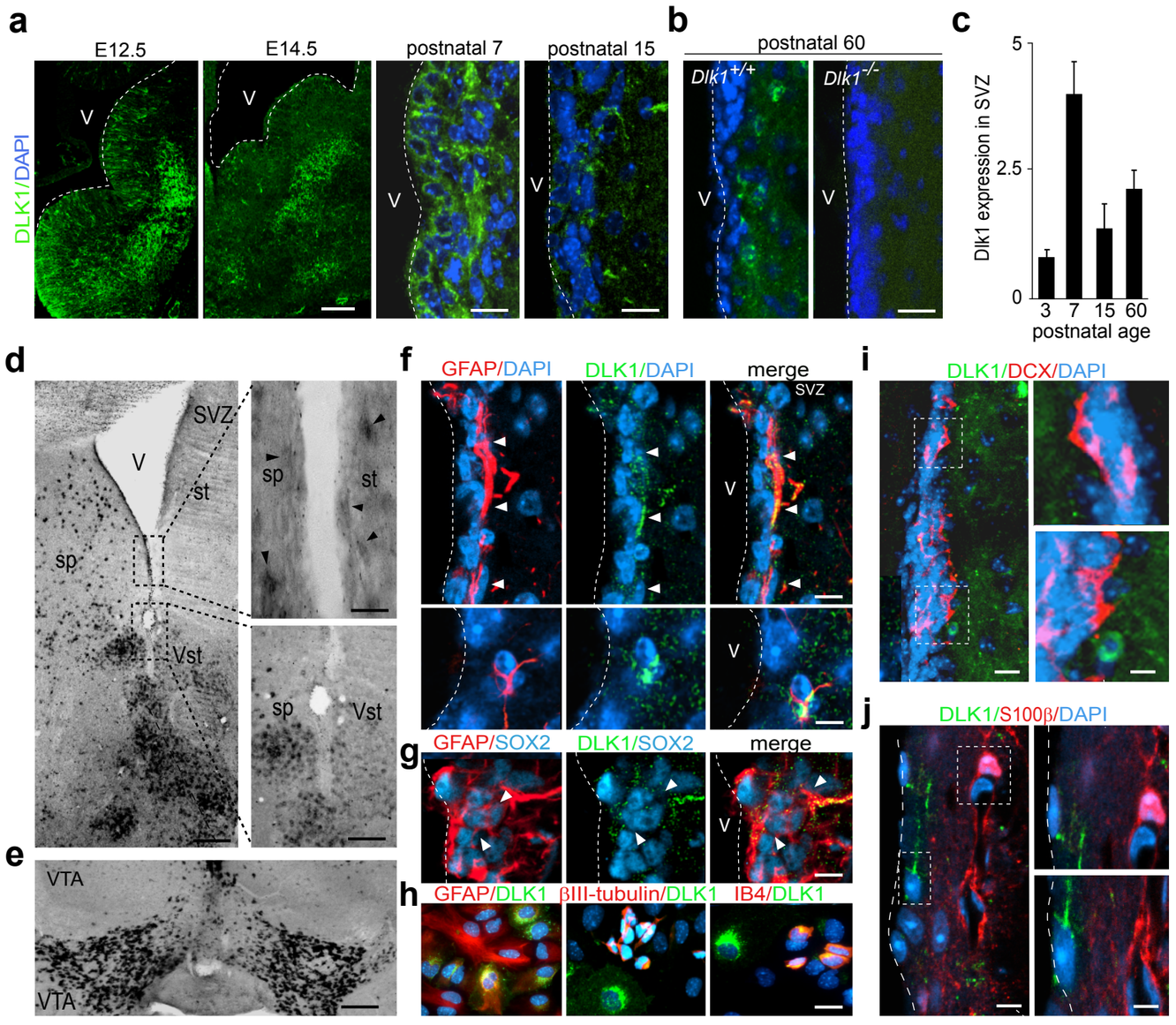
Supplementary Figure 1



Supplementary Figure 1. Developmental expression of DLK1 *in vivo*. (**a**) Immunohistochemistry for DLK1 (green) in coronal sections of brain at different developmental and postnatal stages. (**b**) Immunohistochemistry for DLK1 (green) in sections of adult brain (left panel). *Dlk1* mutant brain sections were antibody negative (right panel). (**c**) Quantification by qPCR of *Dlk1* expression in the SVZ at different postnatal stages. (**d**) *In situ* hybridization of *Dlk1* on sections from murine adult brains (left panel). High magnification images of the SVZ and ventral striatum (Vst) are shown (right panels). Black arrowheads highlight positive cells. sp, septum; st, striatum; V, lateral ventricle. (**e**) *Dlk1* expression in the ventral tegmental area (VTA). (**f**) Immunohistochemistry for DLK1 (green) and GFAP (red) in adult brain sections. Lower panels show higher magnification images. White arrowheads highlight double positive cells. (**g**) Immunohistochemistry for DLK1 (green), GFAP (red) and SOX2 (blue) in adult brain. White arrowheads identify triple positive cells. (**h**) Immunocytochemistry for DLK1 (green) with cell type-specific markers βIII-tubulin (neurons), GFAP (astrocytes), and IB4 (ependymocytes), all in red, in SVZ acutely dissociated cells. No colocalization was found. (**i**) Immunohistochemistry for DLK1 (green) and DCX (red) on coronal sections of adult brain. No colocalization was found. (**j**) Immunohistochemistry for DLK1 (green) and for the parenchymal mature astrocyte marker S100β (red). No colocalization was found. DAPI (blue) was used for counterstaining. Error bars, s.e.m of 5-10 samples. Scale bars: left panel in a, 200 μm; in a, b, f, i, j, 20 μm; in d, 50 μm (right panels, 20 μm); in e, 100 μm; in g, right panels in i, j and lower panel in f, 10μm; in h, 30 μm.