



Supplementary Figure S1. Characterization of nPtenA^{FL/+} brainstem gliomas.

(A) Whole-mount H&E slide showing expansile tumors in the brainstem of nPtenA^{FL/+} mice. Midbr., midbrain; vent, lateral ventricle; cer., cerebellum.

(B) Magnified H&E slides for tumors from nPtenA^{FL/+} mice. Scale bar represents 50 μ m.

(C) Immunohistochemistry staining for HA-tagged PDGFB in tumors from nPtenA^{FL/+} mice. Scale bar represents 50 μ m.

(D) 5X mount showing immunohistochemistry for PTEN of tumors centered in the brainstem (pons) with lack of PTEN reactivity, and diffuse infiltrating borders (arrows) for tumors from nPtenA^{FL/+} mice. Scale bar represents 500 μ m.

(E) 40X mount shows complete loss of PTEN in tumor cells but not normal blood vessels (arrows) in nPtenA^{FL/+} mice. Scale bar represents 50 μ m.