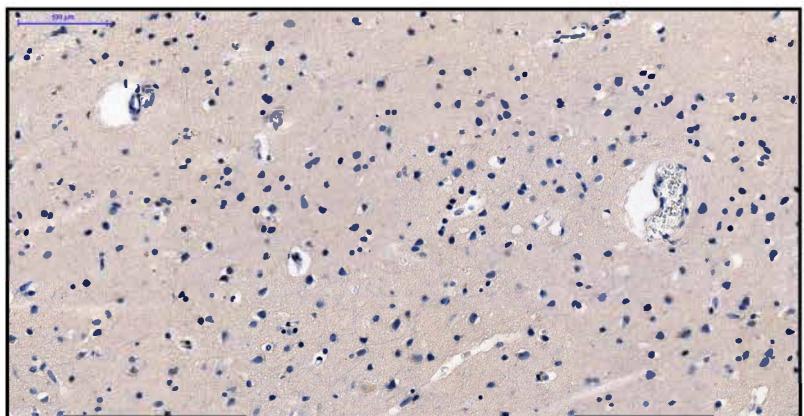


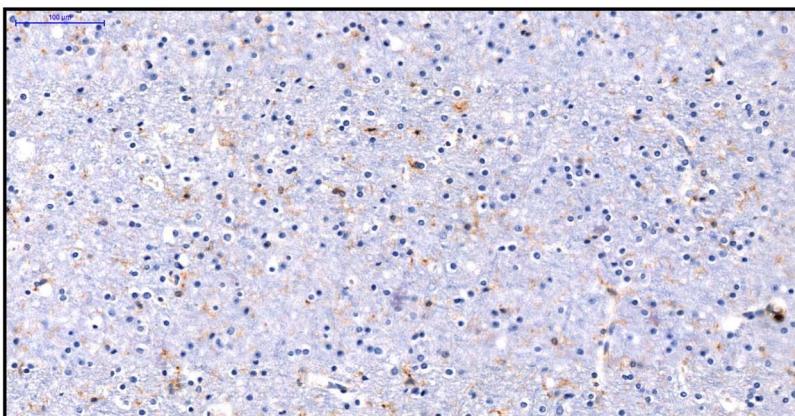
**Supplementary Figure S1.** **A)** mRNA expression levels of PAX5 in MNG and GBM patient samples. Data are presented as  $1/dCt$  individually and as average $\pm$ SEM. **B, C)** Immunohistochemistry staining of PAX5 and CD79a proteins in both MNG and GBM tumors, magnification x20 and x40, size bar 100 and 20  $\mu$ m respectively.

**NHB**

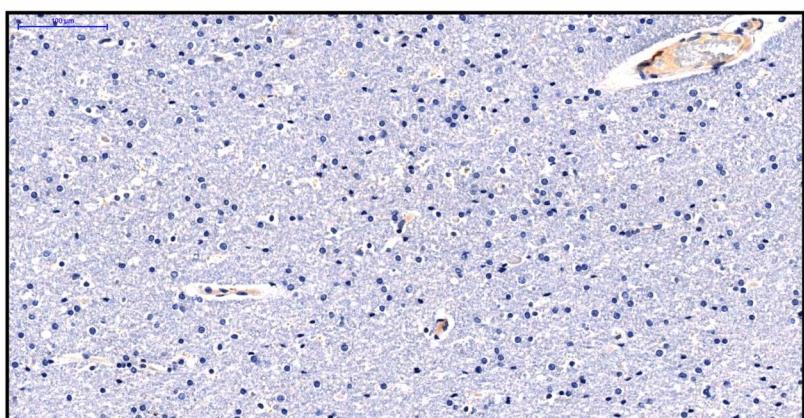
**CD3**



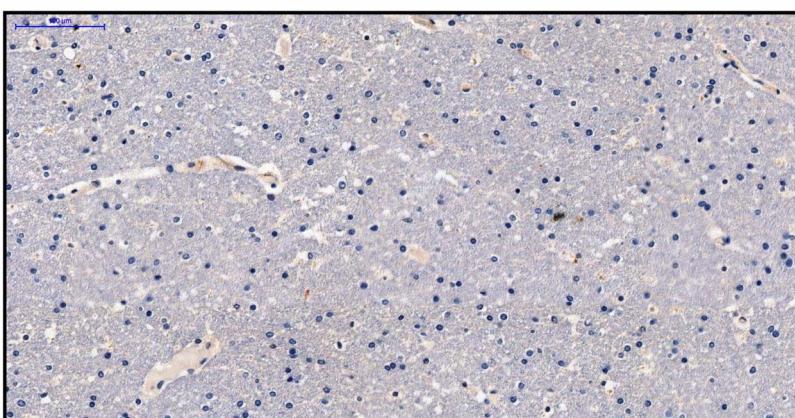
**CD45**



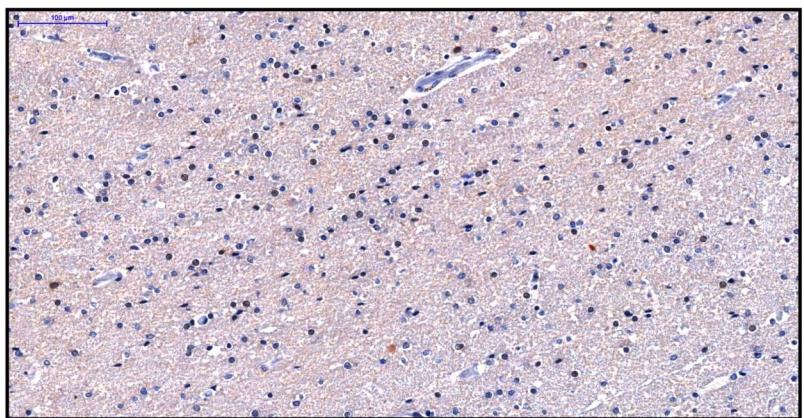
**CD8**



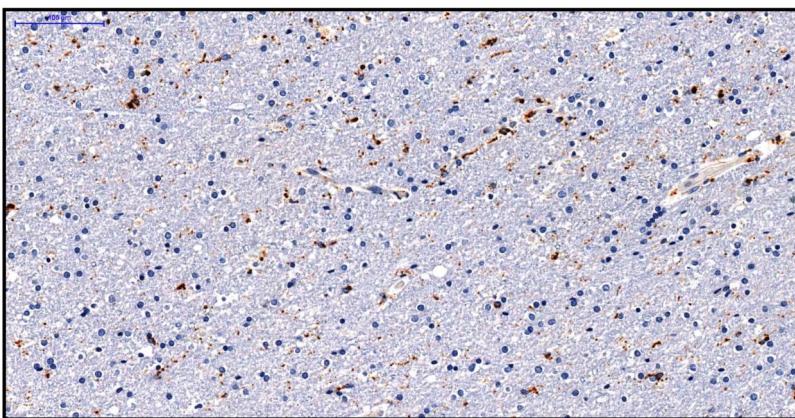
**CD4**



**PAX-5**



**PGM1**



**Supplementary Figure S2.** Immunohistochemistry staining of CD3, CD45, CD8, CD4, PAX-5 and PGM1 in normal human brain (NHB). Magnification x20, size bar 100 μm.

Code	Freeze	Localization	Comment	per mm <sup>2</sup>						per 0.08 mm <sup>2</sup>			
				CD3	CD4	CD8	CD4/CD8	PD1	PD-L1	CD68	CD68	PAX5	CD79a
M6	Yes	Left posterior fossa	Focally lymphocytes	210	12	40	0.3	12	0%**	High	100	0	0
M7	Yes	Right frontal and orbital	Tumor cells focally CD4+	150	18	25	0.72	9	<1%	High	100	0*	0
M8	Yes	Over left sphenoidal bone	Tumor cells focally CD4+	54	9	9	1	<1	<1%*	Low	40	0*	2
G3	Yes	Left temporal	Focally lymphocytes	30	6	6	1	<1	<1%	Moderate	40	30	1
G4	Yes	Left occipital		9	3	2	1.5	<1	0%	Moderate	40	0*	2
G5	Yes	Right centrum semiovale		60	27	7	3.857143	18		Moderate	40	0**	1
G6	Yes	Left temporal		120-600	180	50	3.6	90	-	High	100		

**M:** Meningioma

\*\* moderate to strong staining in tumor cells

\*\* Lymphocytes show strong positivity in one focus

**G:** Glioblastoma

\* weak staining in tumor cells

\* Macrophages are positive

**Supplementary Table S1. Quantification of infiltrating immune cells in mm<sup>2</sup> tissue area. CD3<sup>+</sup> CD4<sup>+</sup> CD8<sup>+</sup> and CD68<sup>+</sup> positive cells/mm2 in MNG and GBM IHC stained tissues.**