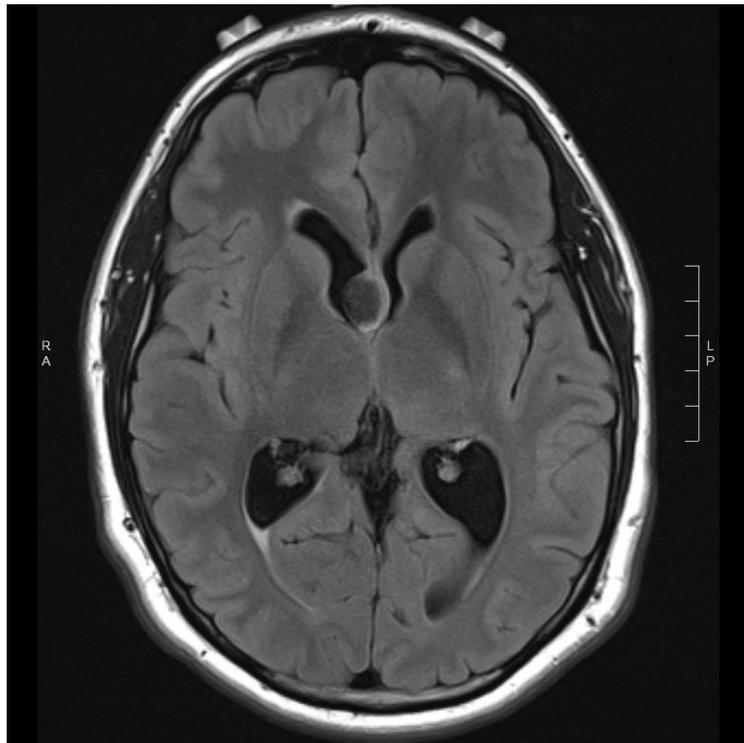
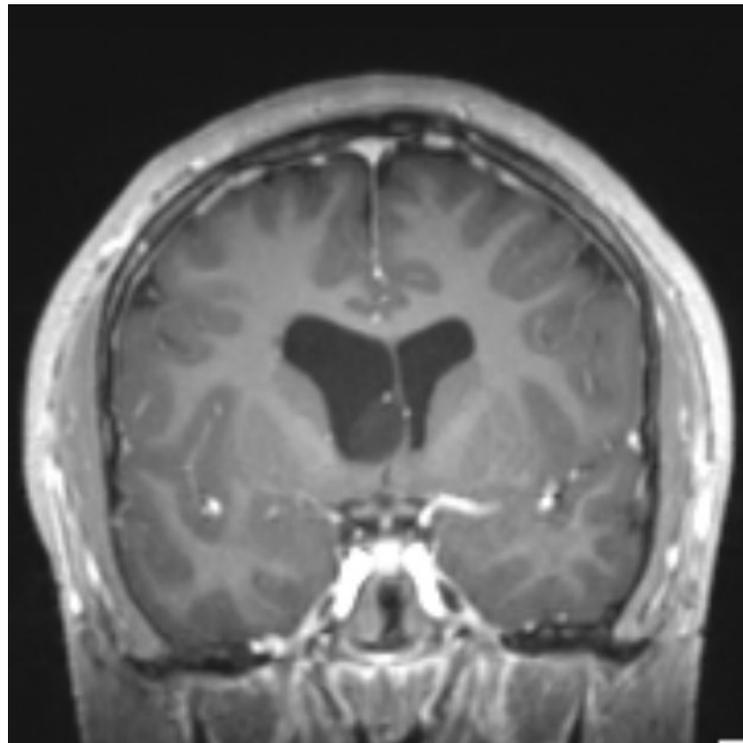


MGNT of SP/LV #1

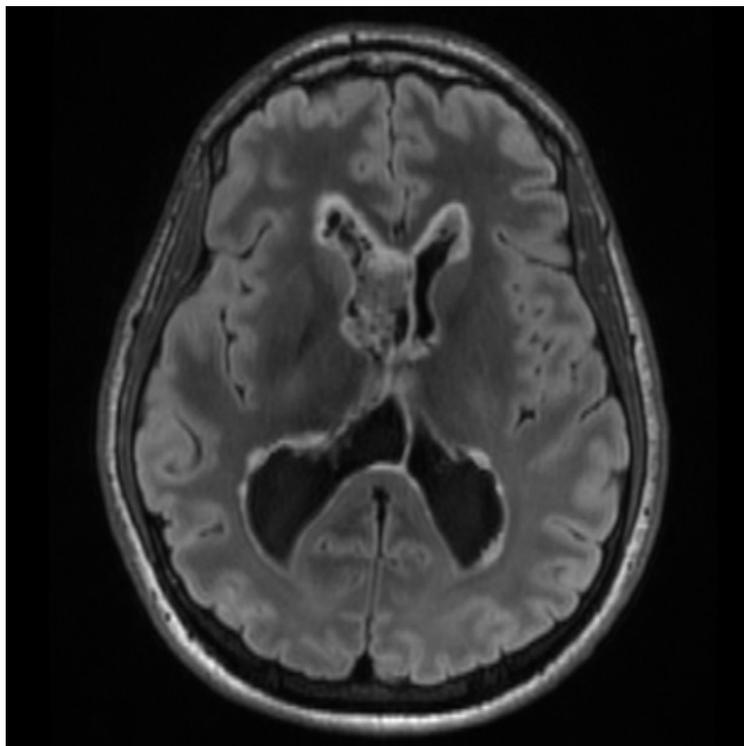


T2 FLAIR

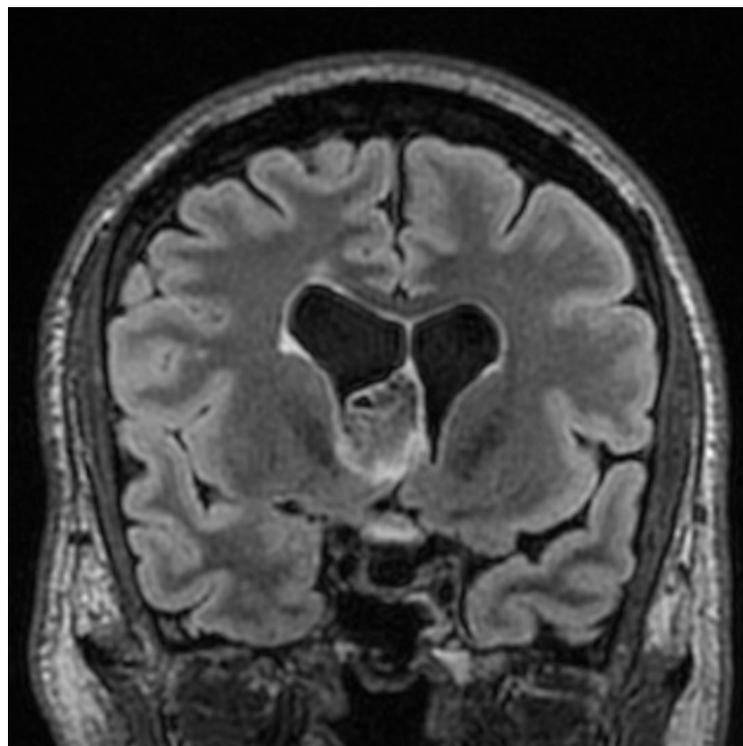


T1 MP-RAGE

MGNT of SP/LV #2



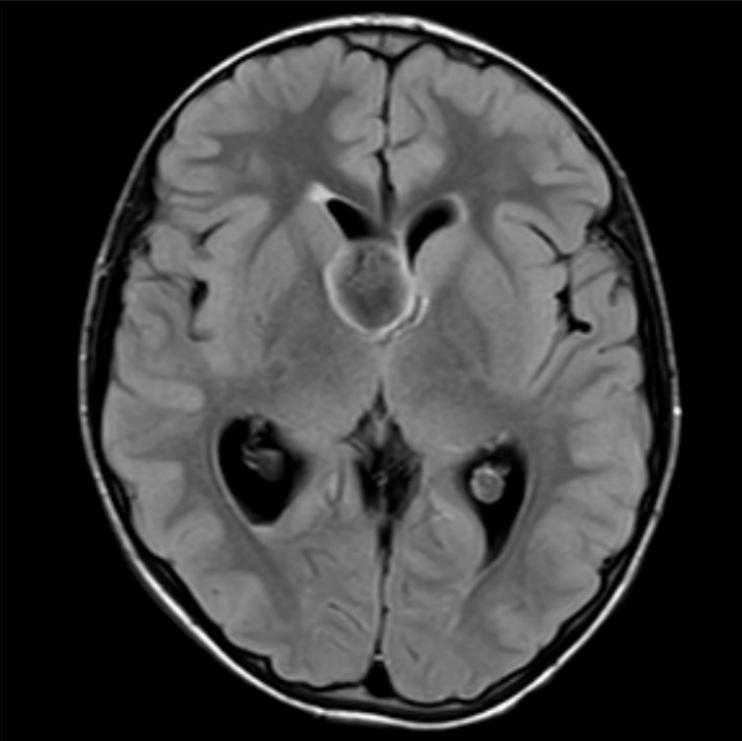
T2 FLAIR



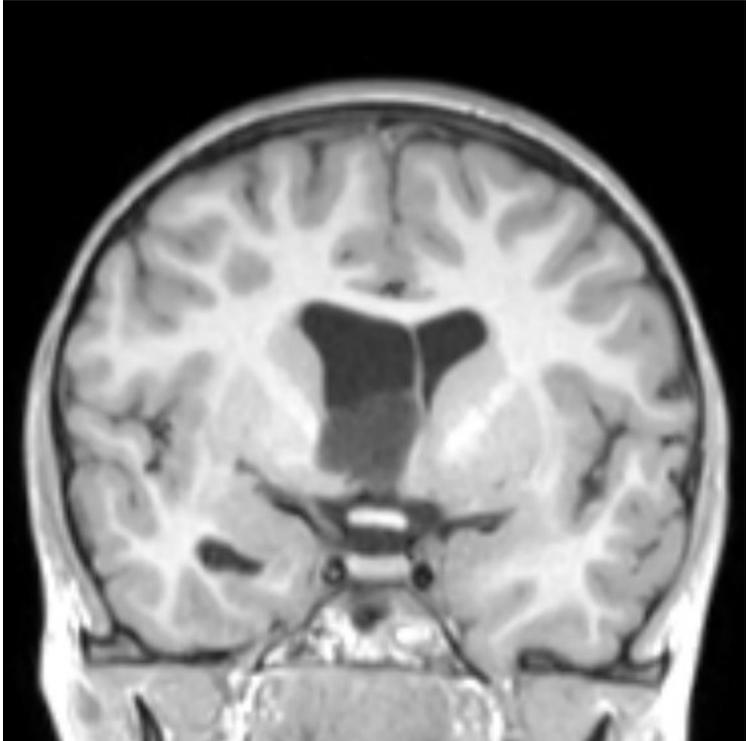
T2 FLAIR

Supplementary Figure 1. Imaging features of the four myxoid glioneuronal tumors of the septum pellucidum and lateral ventricle. Representative pre-operative magnetic resonance images are shown.

MGNT of SP/LV #3

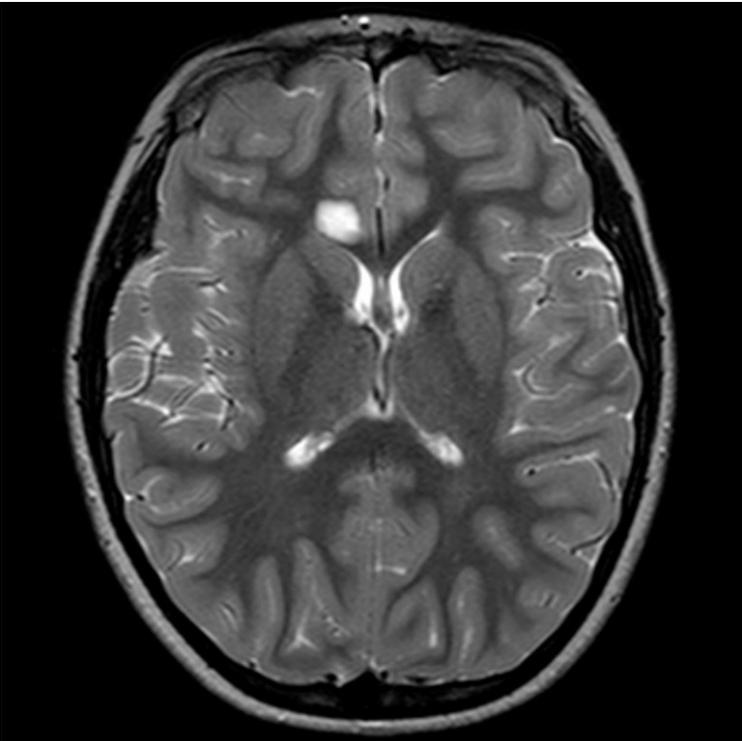


T2 FLAIR

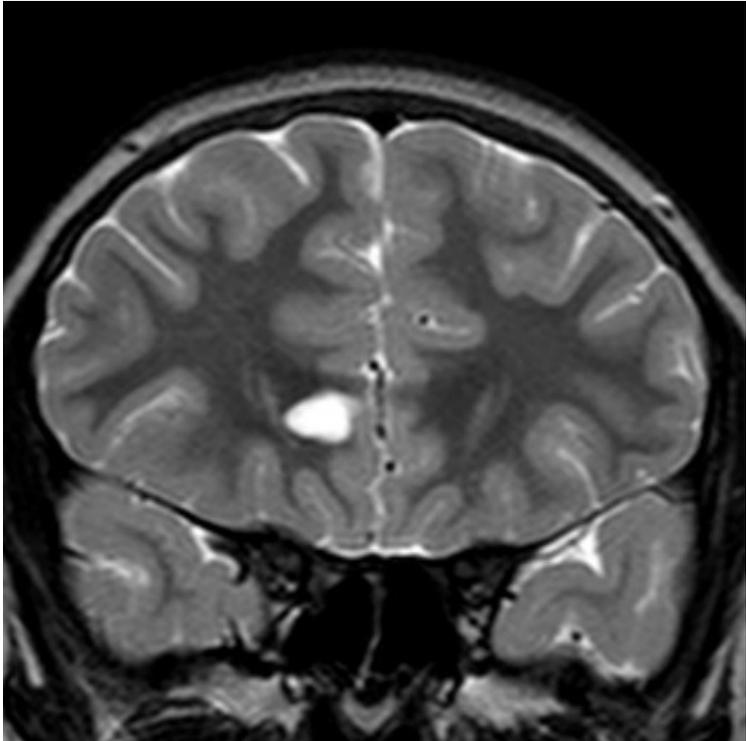


T1 MP-RAGE

MGNT of SP/LV #4

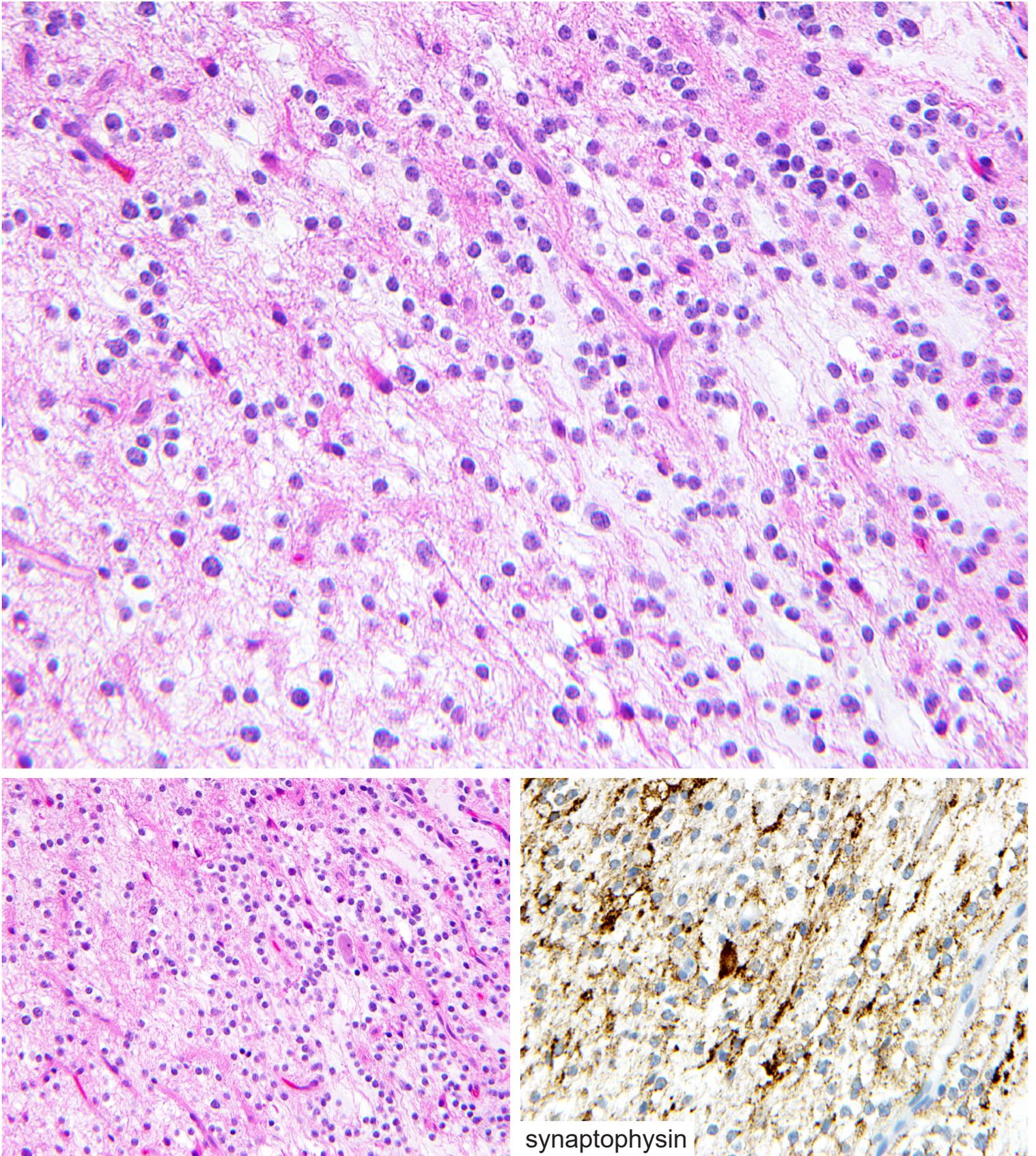


T2 FSE



T2 FSE

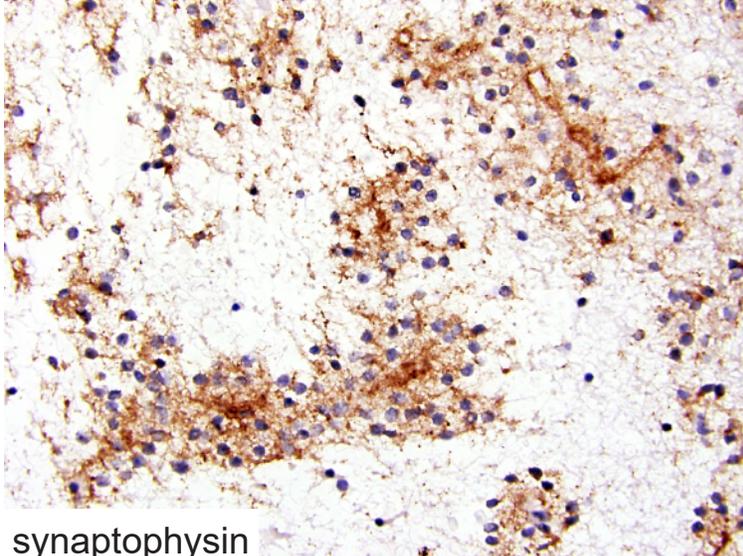
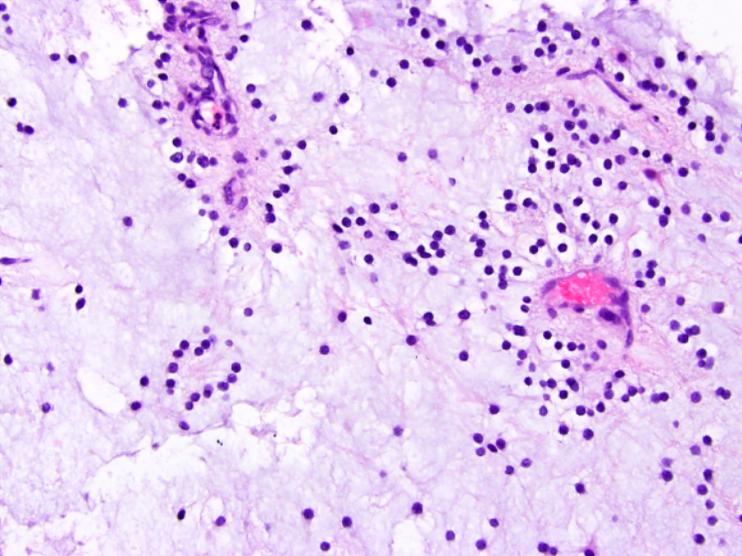
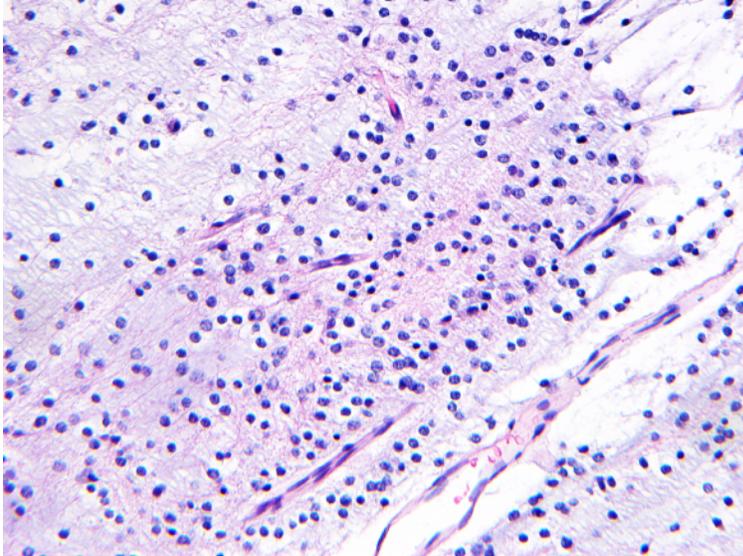
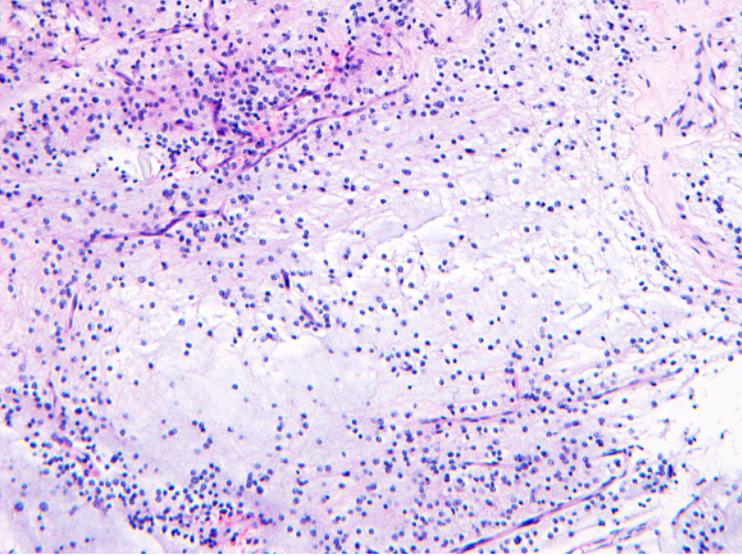
MGNT of SP/LV #1



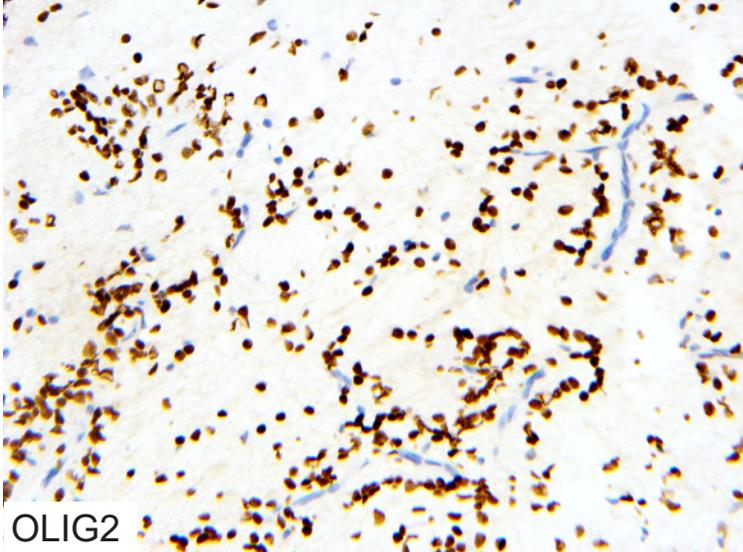
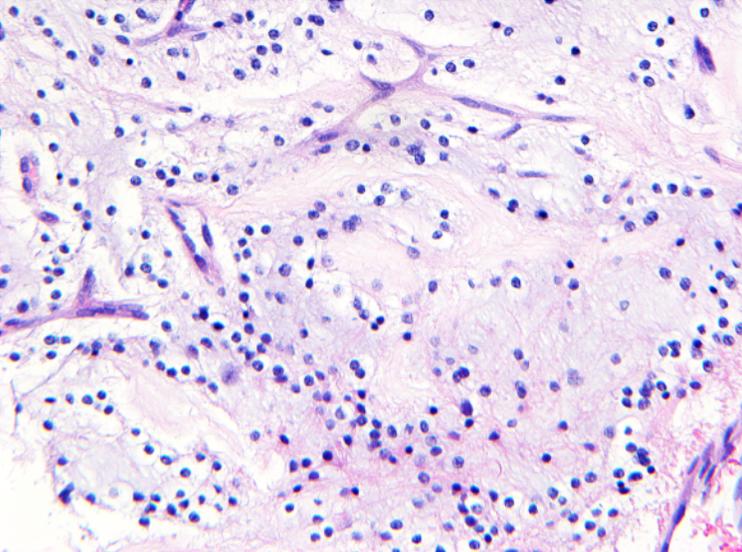
synaptophysin

Supplementary Figure 2. Histologic features of the four myxoid glioneuronal tumors of the septum pellucidum and lateral ventricle. Representative images from hematoxylin and eosin stained sections and select immunohistochemical stains are shown.

MGNT of SP/LV #2

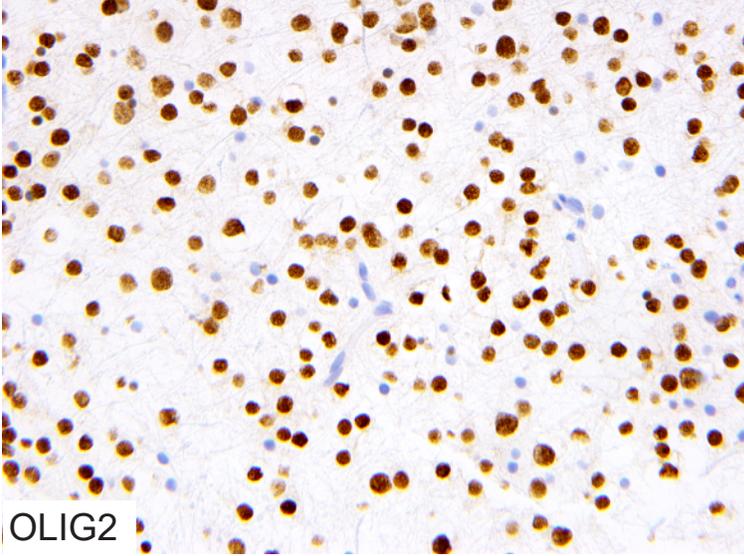
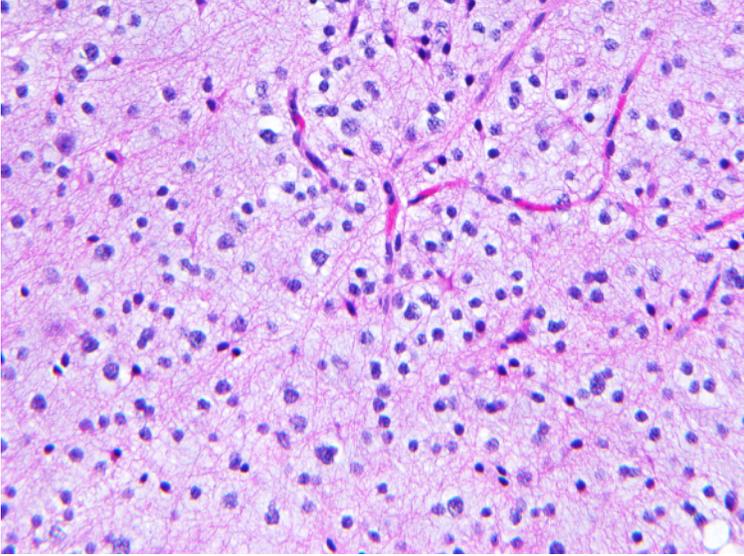
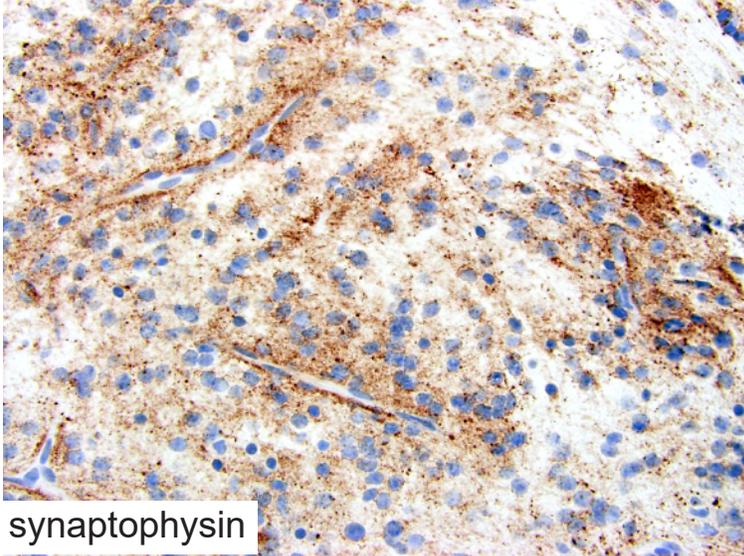
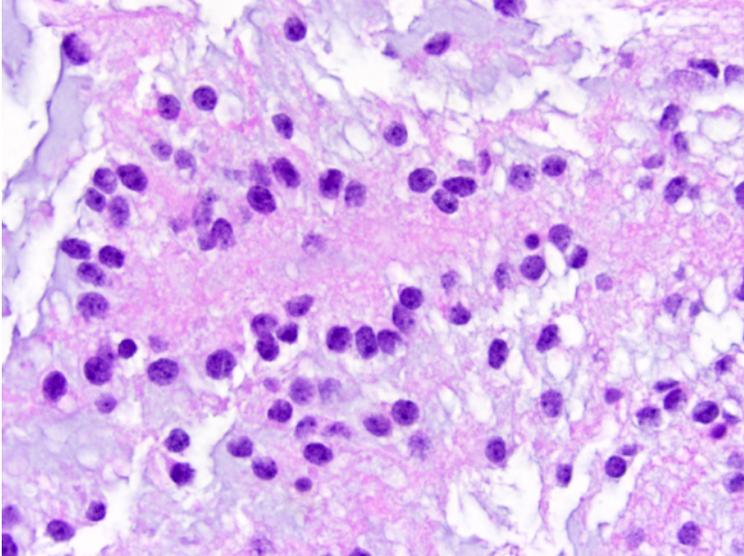
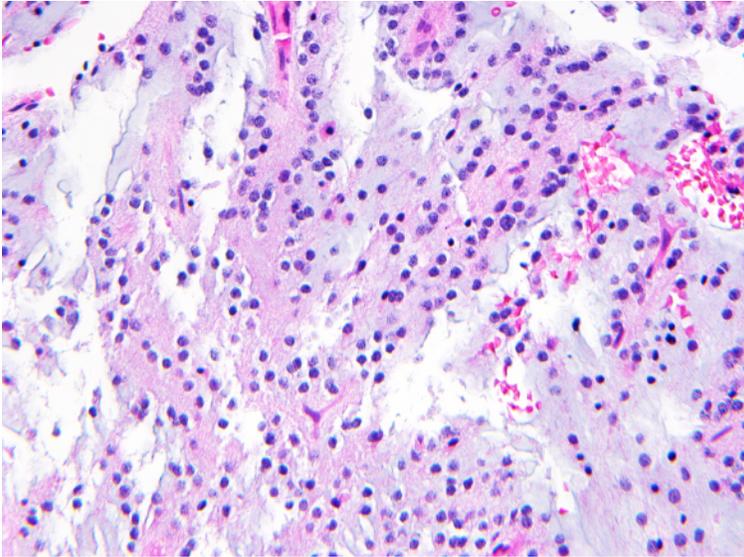
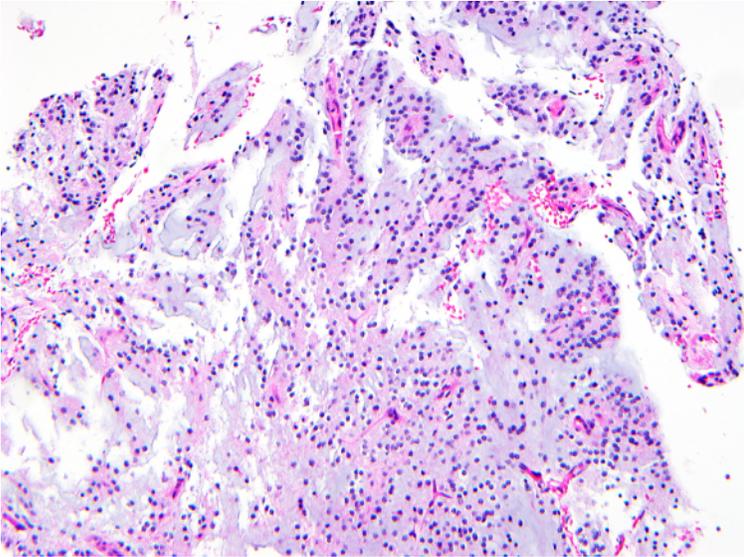


synaptophysin

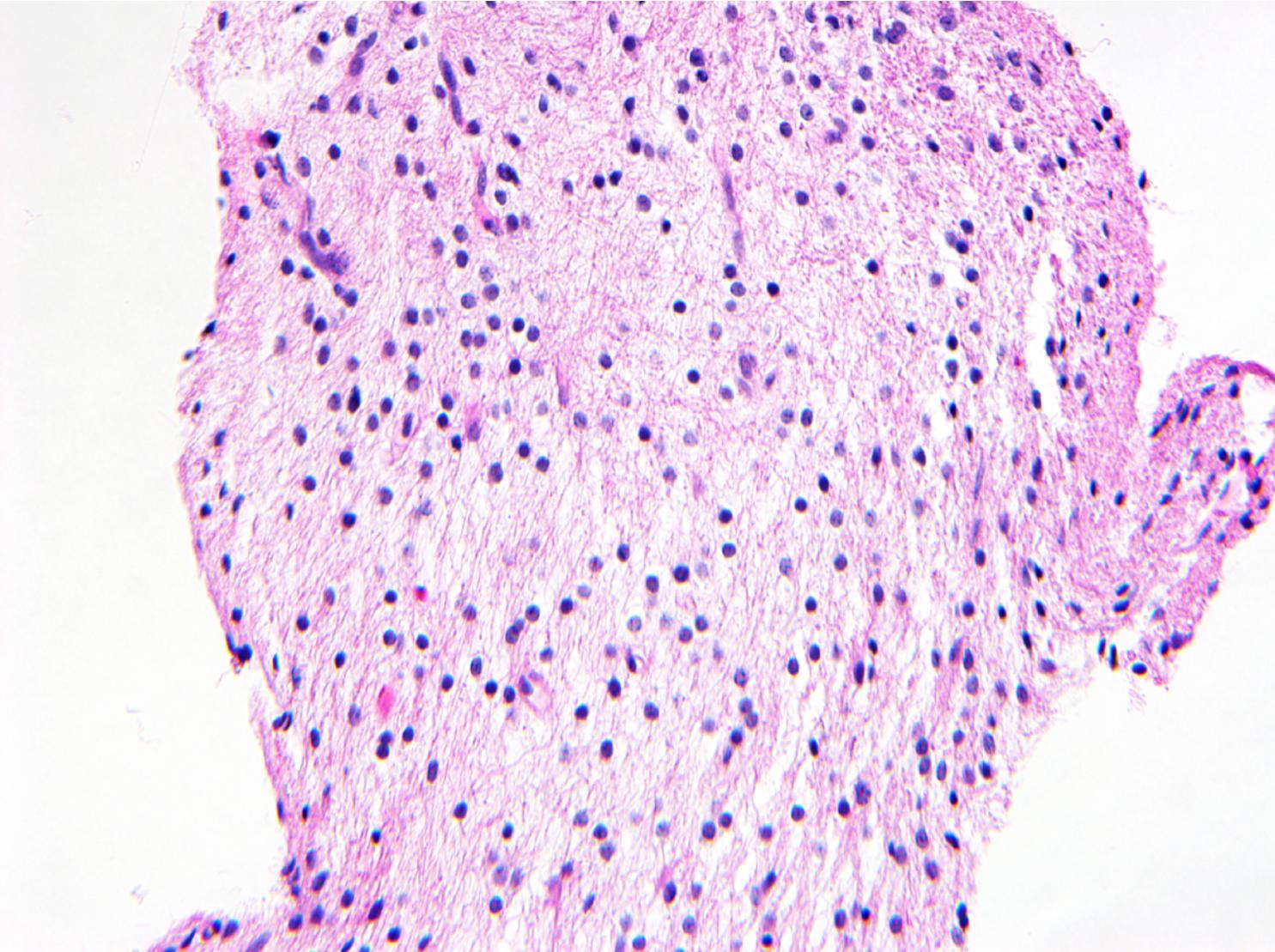


OLIG2

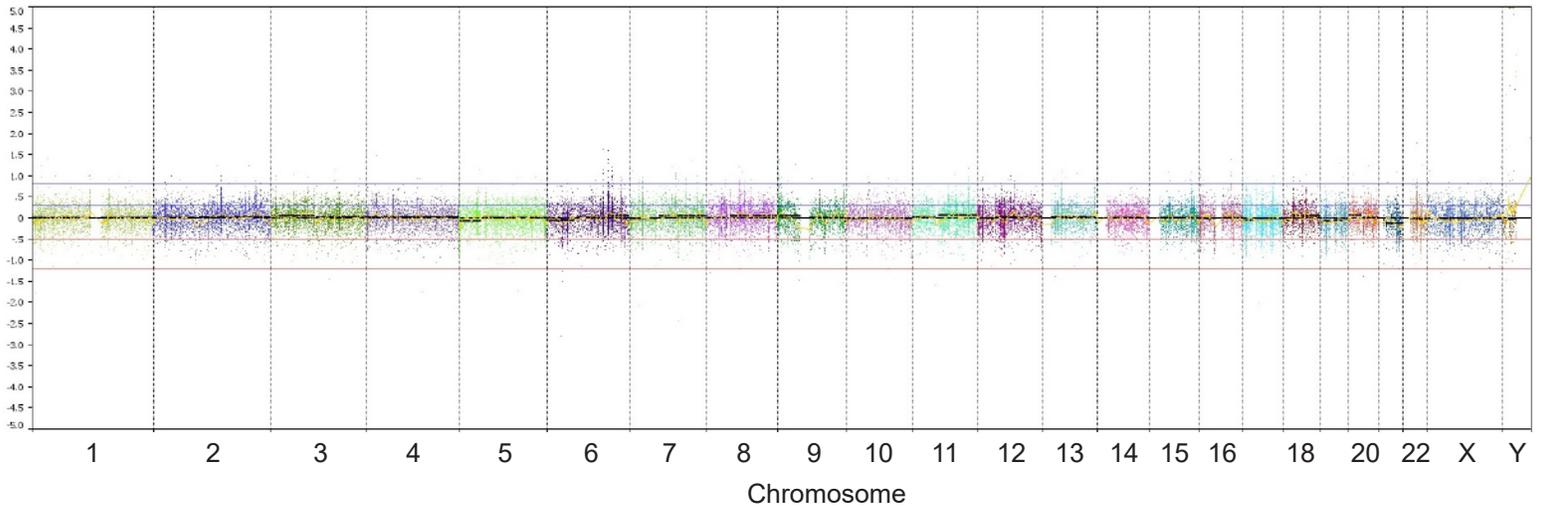
MGNT of SP/LV #3



MGNT of SP/LV #4



MGNT of SP/LV #3 harboring *PDGFRA* p.K385L mutation with allele frequency of 44%



Supplementary Figure 3. Chromosomal copy number assessment of the four myxoid glioneuronal tumors of the septum pellucidum and lateral ventricle revealed an absence of chromosomal gains, losses, and focal amplifications or deletions in all cases. Depicted is the genome-wide copy number plot from one of the tumors showing a balanced diploid genome.