

## GFAP Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50056

Clone# BP6061

**Predicted Molecular Wt:** 50kDa  
**Species Cross-reactivity:** Human  
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P14136

### Background:

GFAP (Glial fibrillary acidic protein) is an intermediate filament protein. The protein is the smallest (8 nm) of the intermediate filament proteins with a molecular weight of about 50 kDa.

In the central nervous system, GFAP is expressed in astrocytes and ependymal cells but not in other glial cells. However, immature oligodendrocytes and immature choroid plexus cells may be GFAP positive. In the peripheral nervous system enteric Schwann cells and satellite cells of human sensory ganglia express GFAP. Outside the nervous system, GFAP is seen in myoepithelial cells and chondroblasts. In tumor tissues, astrocytoma, ependymoma, glioblastoma, and oligodendroglioma are almost always positive. Plexus carcinoma, ganglioglioma and primitive neuroectodermal tumors (PNET: neuroblastoma a.o.) express GFAP to a varying extent. Schwannoma and neurofibroma frequently express GFAP. Chondroma, chondrosarcoma and pleomorphic adenoma are also GFAP positive in most cases. A few carcinomas (especially from lung and breast) may express GFAP in paraganglioma GFAP may be detected in sustentacular cells.

GFAP is used to differentiate astrocytoma from non-glial cell tumors.

### Subcellular location:

Cytoplasm

### Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

### Immunogen:

Synthetic peptide corresponding to GFAP residues within aa332-432 of GFAP was used as an immunogen.

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage conditions:

-20°C

### Storage instructions:

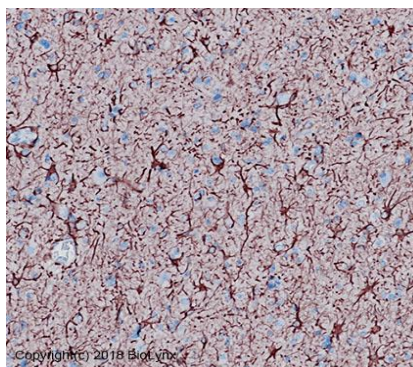
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

### Recommended Dilutions:

IHC-P: 1:100-1:200

### Background References:

- McLendon RE, et al. Brain Tumor Pathol. 2002;19(2):51-8. Review.
- Matyja E, et al. Folia Neuropathol. 2001;39(1):19-26.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections analysis of astrocytoma tissue labelling GFAP with BP6061. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by:



**For research use only. Not for use in diagnostic or therapeutic applications.**