

Product datasheet for **BM4069**

GFAP Mouse Monoclonal Antibody [Clone ID: GF-01]

Product data:

Product Type:	Primary Antibodies
Clone Name:	GF-01
Applications:	IHC, WB
Recommended Dilution:	Suitable for Immunohistochemistry on: Frozen sections: 0.2 µg/ml (1/2000) Paraffin sections: 1 µg/ml (1/400). Proteinase K pretreatment for antigen retrieval is recommended. Suggested positive control: Human cortex.
Reactivity:	Feline, Human, Porcine
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	Antibody GF-01 is an excellent tool for the differentiation of tumours of glial or astrocytic origin. The antibody reacts with GFAP, a 50 kDa intermediate filament protein, which is expressed by astrocytes and to a lesser degree by ependymal cells, folliculostellate cells of the anterior pituitary and cerebellar radial glia. The antibody does not react with other intermediate filaments. The antibody also reacts with porcine GFAP.
Formulation:	PBS, pH 7.2 with 10 mg/ml bovine serum albumin (BSA) as a stabilizer and 0.09% sodium azide as a preservative. State: Purified State: Lyophilized diluted ascites.
Concentration:	0.4 mg/ml
Conjugation:	Unconjugated
Storage:	Store the antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Do not freeze working dilutions Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	glial fibrillary acidic protein



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Database Link: [Entrez Gene 2670 Human P14136](#)

Background: Glial fibrillary acidic protein (GFAP) is a member of the class III intermediate filament protein family. It is heavily, and specifically, expressed in astrocytes and certain other astroglia in the central nervous system, in satellite cells in peripheral ganglia, and in non myelinating Schwann cells in peripheral nerves. In addition, neural stem cells frequently strongly express GFAP. Antibodies to GFAP are therefore very useful as markers of astrocytic cells. In addition many types of brain tumor, presumably derived from astrocytic cells, heavily express GFAP. GFAP is also found in the lens epithelium, Kupffer cells of the liver, in some cells in salivary tumors and has been reported in erythrocytes.

Synonyms: Glial Fibrillary Acidic Protein

Note: Protocol: **Protocol with frozen, ice-cold acetone-fixed sections:**

The whole procedure is performed at room temperature

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayer's hemalum.

Protocol with formalin-fixed, paraffin-embedded sections:

The whole procedure is performed at room temperature

1. Deparaffinize and rehydrate tissue section
2. Incubate the tissue section with proteinase K for 7min.
3. Wash in distilled water
4. Block endogenous peroxidase
5. Wash in PBS
6. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
7. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with secondary antibody (peroxidase-conjugated goat anti mouse IgG+IgM (H+L) minimal-cross reaction to human) for 1h in a humid chamber
10. Wash in PBS
11. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
12. Wash in PBS
13. Counterstain with Mayer's hemalum.