



Category:
Monoclonal Antibodies

Cat. #
V1058

Product Name:
Glial Fibrillary Acidic Protein (GFAP)

Description:

Monoclonal Mouse Anti-Human Glial Fibrillary Acidic Protein (GFAP). This antibody labels the astrocytes in the brain. In peripheral neural system it reacts with Schwann cells, satellite cells and enteric glial cells. It is positive with astrocytes in the central neural system.

Immunogen:

Glial Fibrillary Acidic Protein from Human Brain

Application:

Immunohistochemistry (Paraffin/Frozen)(1:50-1:100; 60 Min. RT)

Species Reactivity:

Human, Mouse, rat and Rabbit. Others not tested.

Recommended Positive Control:

Brain, Brain glioma

Presentation:

20 mM Tris-Borate, 150 mM Sodium Chloride, and 0.05% Sodium Azide, pH 7.5.

Aliquoting Instructions:

In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies. When diluting for immunohistochemistry, ELISA or western blot, make the dilution in primary antibody diluting buffer. Avoid diluting the entire contents of the vial at once since the diluted solution may have reduced stability.

Staining Procedure:

This antibody can be used on frozen or formalin-fixed paraffin-embedded tissue sections. Prolonged fixation in buffered formalin can destroy the epitope. The antibody may be used at a dilution of 1:50 -1:100. It is recommended that this product be used on frozen tissue sections or specimens.

Specificity:

This antibody recognizes a 52 kD intermediate filament protein glial fibrillary acidic protein in brain and spinal cord. This antibody is specific against GFAP only and does not recognize other intermediate filaments. In normal tissues, this antibody reacts with astrocytes and CNS ependymal cells but not oligodendrocytes or neurons. In tumor cells, it recognizes astrocytomas and ependymomas but does not show any recognition with carcinoma, lymphoma, and melanoma.

Storage:

Store at 2~8o C for short term, freeze under -20oC for long term storage.

Size: 0.2mg

Clone: U224 (6F2)

Isotype: IgG1

Host: Mouse

Form: purified

Concentration: 0.5 mg/ml

Units On Hand: YES

References:

1. Coakham HB, Garson JA, Brownell B, Kemshead JT. Diagnosis of cerebral neoplasms using monoclonal antibodies. Prog Exp Tumor Res 29: 57-77, 1985.
2. Debus E, Weber W, Daburn M. Monoclonal antibodies specific for glial fibrillary acidic protein and for each of the neurofilament triplet polypeptides. Differentiation 25: 193-205, 1983.

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