

Monoclonal Anti- GFAP Antibody

Catalog Number: MA1045

Description

Lot No.	08A12
Clone	G-A-5
Size	100µg/vial
Form	lyophilized
Ig type	mouse IgG1
Specificity	No cross reactivity with other proteins.
Species	Human, pig, rat
Immunogen	GFAP from pig spinal cord
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.

Application

	Concentration	Tested Species	Antigen Retrieval
Western blot	0.5-1µg/ml	Human, Pig, Rat	-
Immunohistochemistry (Paraffin-embedded Section)	0.4-1µg/ml	Human, Pig, Rat	By Heat
Immunohistochemistry (Frozen Section)	0.5-1µg/ml	Human, Pig, Rat	-

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1001 in WB, supported by SA1021 in IHC(P) and IHC(F).

Background

Glial fibrillary acidic protein(GFAP) is an intermediate filament protein of 52Kda. GFAP gene is mapped to human 17q21. GFAP is a useful marker of astroglia in the brain. Mutations in GFAP, encoding glial fibrillary acidic protein, are associated with Alexander disease.

Reference

1. Brenner, M.; Johnson, A. B.; Boespflug-Tanguy, O.; Rodriguez, D.; Goldman, J. E.; Messing, A. : Mutations in GFAP, encoding glial fibrillary acidic protein, are associated with Alexander disease. *Nature Genet.* 27: 117-120, 2001.
2. Rodriguez, D.; Gauthier, F.; Bertini, E.; Bugiani, M.; Brenner, M.; N'guyen, S.; Goizet, C.; Gelot, A.; Surtees, R.; Pedespan, J.-M.; Hernandorena, X.; Troncoso, M.; Uziel, G.; Messing, A.; Ponsot, G.; Pham-Dinh, D.; Dautigny, A.; Boespflug-Tanguy, O. : Infantile Alexander disease: spectrum of GFAP mutations and genotype-phenotype correlation. *Am. J. Hum. Genet.* 69: 1134-1140, 2001. Note: Erratum: *Am. J. Hum. Genet.* 69: 1413 only, 2001.