NEUROMICS

GFAP

Data Sheet

Catalog Number:	MO22101	**Host:**	Mouse
Product Type:	Mouse Monoclonal IgG	**Species Reactivity:**	Human, Rat, Mouse, Cow, and Pig
Immunogen Sequence:	GFAP isolated biochemically from pig spinal cord	**Format:**	Purified liquid antibody in 50% PBS, 50% glycerol plus 5mM of Sodium Azide. Concentration: 1mg/ml.

Applications:
Immunofluorescent: 1:1,000
Immunocytochemistry: 1:1,000
Immunohistochemistry: 1:1,000
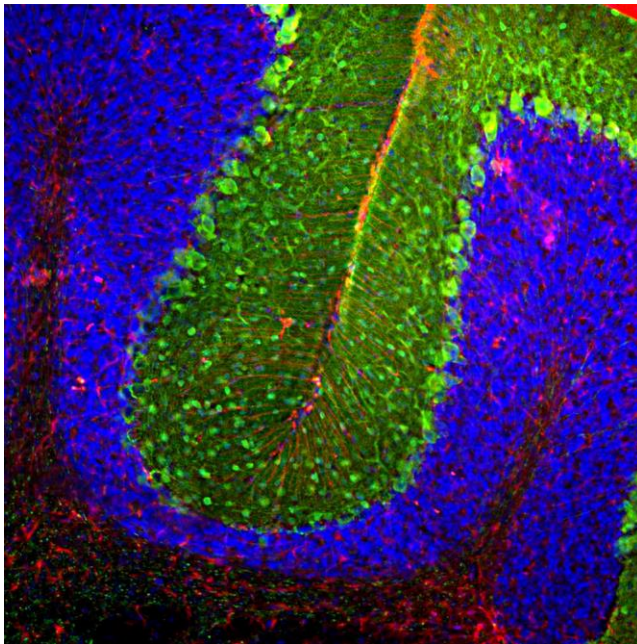Western Blot: 1:10,000

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

Storage: Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles.

Application Notes

Description/Data:
Glial Fibrillary Acidic Protein (GFAP) is strongly and specifically expressed in astrocytes, Bergmann glia and certain other glia in the central nervous system, in satellite cells in peripheral ganglia, and in non-myelinating Schwann cells in peripheral

nerves. GFAP expression is also seen in developing neural stem cells and GFAP levels may greatly increase in regions of CNS injury or disease, and point mutations in the GFAP gene are causative of Alexander's disease. Antibodies to GFAP such as MCA-2A5 are useful for visualizing glia and monitoring developmental, disease and damage related CNS alterations.

Image: Immunofluorescent analysis of an adult rat cerebellum section stained with mouse mAb to GFAP, MO22101, dilution 1:500, in red, and costained with chicken pAb to parvalbumin, dilution 1:2,000, in green. The blue is DAPI staining of nuclear DNA.

FOR RESEARCH USE ONLY