

Product datasheet for **TA336707**

GFAP Mouse Monoclonal Antibody [Clone ID: 5C10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5C10
Applications:	IF, WB
Recommended Dilution:	WB: 1:5000, IF: 1:500-1:1000, IHC: 1:500-1:1000, IHC-F: 1:500-1:1000, IHC-P: 1:500-1:1000
Reactivity:	Human, Mouse, Rat, Bovine, Chicken, Equine, Avian
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	A preparation of purified pig spinal cord GFAP
Formulation:	Preservative: 0.05% Sodium Azide. Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Ascites
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	glial fibrillary acidic protein
Database Link:	NP_002046 Entrez Gene 14580 Mouse Entrez Gene 24387 Rat Entrez Gene 2670 Human P14136



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Background:

GFAP (glial fibrillary acidic protein) is a class-III intermediate filament protein which is a cell-specific marker with ability to distinguish astrocytes from other glial cells during CNS development. Originally discovered as a major fibrous protein of multiple sclerosis plaques, GFAP was subsequently characterized as a member of intermediate filament protein family (GFAP, peripherin, desmin and vimentin). In Western blot assay, GFAP depicts ~50-55kD band which is generally associated with few lower molecule weight bands of its alternate transcripts. GFAP is especially expressed in astrocytes and certain other astroglia in CNS, in satellite cells in peripheral ganglia, and in non-myelinating Schwann cells in PNS. Astrocytes react to damage/pathologies leading to "astrogliosis" wherein the reactive astrocytes show enhanced GFAP expression and neural stem cells also express high GFAP levels. Defects in GFAP have been linked to Alexander disease (ALEXD) which is characterized by the presence of Rosenthal fibers, GFAP containing cytoplasmic inclusions in astrocytes.

Synonyms:

ALXDRD

Note:

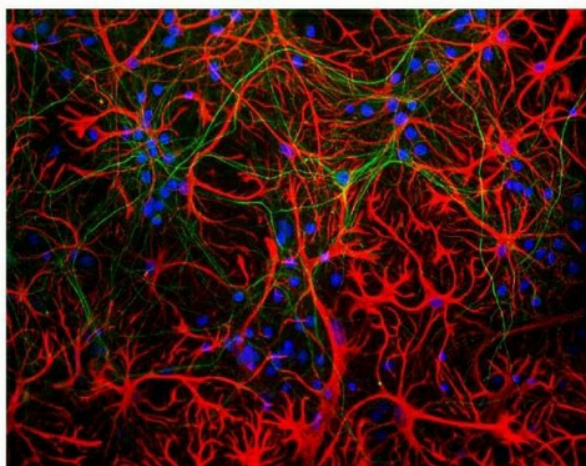
This GFAP (5C10) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded and frozen sections, and Western blot. In WB, a band can be seen at ~55 kDa.

Protein Families:

ES Cell Differentiation/IPS

Product images:

Western Blot: GFAP Antibody (5C10) TA336707 - Strip blot of rat spinal cord protein extract stained with TA336707 antibody. A prominent band at about 55 kDa corresponds to the major isoform of GFAP



Immunocytochemistry/Immunofluorescence:
GFAP Antibody (5C10) TA336707 - Mixed neuronal-glial cultures stained with TA336707, and chicken polyclonal antibody to neurofilament NF-L NBP1-05219 (green). The GFAP antibody stains the network of astrocytes in th