

Mouse anti-Human GFAP Monoclonal Antibody | anti-GFAP antibody

GFAP (Astrocyte & Neural Stem Cell Marker)

CATALOG # AAA214651	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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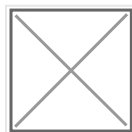
PRODUCT SYNONYMS

GFAP; Monoclonal Antibody; GFAP (Astrocyte & Neural Stem Cell Marker); Astrocyte or Intermediate Filament Protein; Glial Fibrillary Acidic Protein (GFAP); anti-GFAP antibody

PRODUCT SPECIFICATIONS

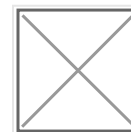
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1/Kappa
Clone Number	GFAP/2076
Specificity	This MAb recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins. GFAP is specifically found in astroglia. GFAP is a very popular marker for localizing benign astrocyte and neoplastic cells of glial origin in the central nervous system. Antibody to GFAP is useful in differentiating primary gliomas from metastatic lesions in the brain and for documenting astrocytic differentiation in tumors outside the CNS.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	431
Applicable Applications for anti-GFAP antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant human GFAP protein fragment (around aa 101-200)
Cellular Localization	Cytoplasm
Positive Control	T98G cells (FACS). Human brain lysate (WB). Brain or Astrocytoma (IHC)
Research Areas	Cardiovascular, Endothelial Cell Marker, Neural Stem Cells, Neuroinflammation, Neuroscience, Signal Transduction
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required

IMAGES



WB (Western Blot)

Western Blot Analysis of Human Brain, Mouse Brain, Rat Brain, Guinea Pig Brain and Hamster Brain tissue lysates using GFAP Mouse Monoclonal Antibody (GFAP/2076).



WB (Western Blot)

Western Blot Analysis of human brain tissue lysate using GFAP Mouse Monoclonal Antibody (GFAP/2076)



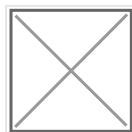
Application Data

Flow Cytometric Analysis of T98G cells using GFAP Mouse Monoclonal Antibody (GFAP/2076) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).



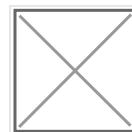
Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using GFAP Mouse Monoclonal Antibody (GFAP/2076) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified GFAP Mouse Monoclonal Antibody (GFAP/2076). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human Cerebellum stained with GFAP Mouse Monoclonal Antibody (GFAP/2076).

ADDITIONAL INFORMATION

References

McLendon, R.E. and Bigner, D.D. 1994. Immunohistochemistry of the glial fibrillary acidic protein: basic and applied considerations. Brain Pathol. 4: 221-228. Eng, L.F. and Ghirnikar, R.S. 1994. GFAP and astrogliosis. Brain Pathol. 4: 229-237.

NCBI AND UNIPROT INFORMATION

NCBI GI #	196115290
NCBI GeneID	2670
NCBI Accession #	NP_001124491.1
NCBI GenBank Nucleotide #	NP_001124491.1
UniProt Accession #	P14136; Q53H98; Q5D055; Q6ZQS3; Q7Z5J6; Q7Z5J7; Q96KS4; Q96P18; Q9UFD0; B2RD44; D3DX59; E9PAX3
Molecular Weight	~50kDa
NCBI Official Full Name	glial fibrillary acidic protein isoform 2
NCBI Official Synonym Full Names	glial fibrillary acidic protein
NCBI Official Symbol	GFAP
NCBI Official Synonym Symbols	ALXDRD
NCBI Protein Information	glial fibrillary acidic protein
UniProt Protein Name	Glial fibrillary acidic protein
UniProt Gene Name	GFAP
UniProt Synonym Gene Names	GFAP

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