

Product datasheet for **UM500005CF**

GFAP Mouse Monoclonal Antibody [Clone ID: UMAB5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	UMAB5
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:500~1000, IHC 1:50, IF 1:100
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GFAP (NP_002046) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	49.9 kDa
Gene Name:	glial fibrillary acidic protein
Database Link:	NP_002046 Entrez Gene 14580 Mouse Entrez Gene 24387 Rat Entrez Gene 2670 Human P14136



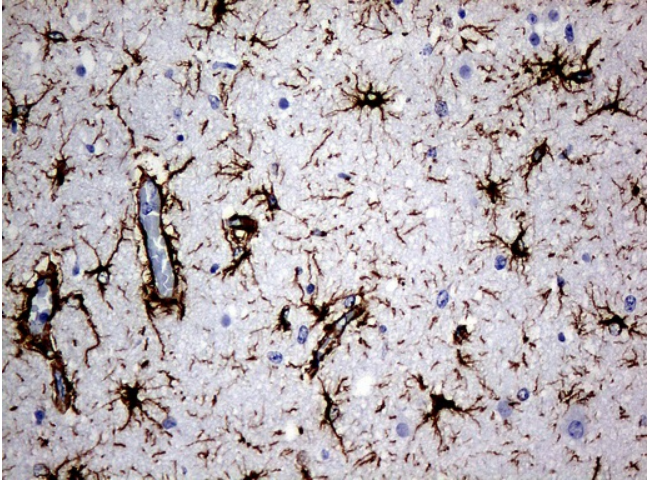
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Background: This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

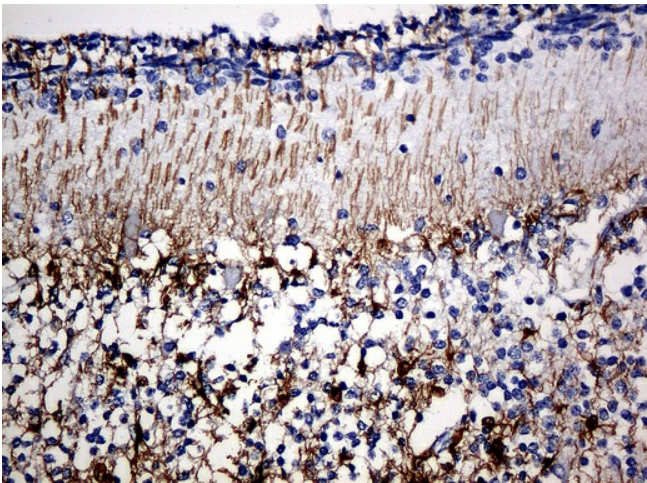
Synonyms: ALXDRD

Protein Families: ES Cell Differentiation/IPS

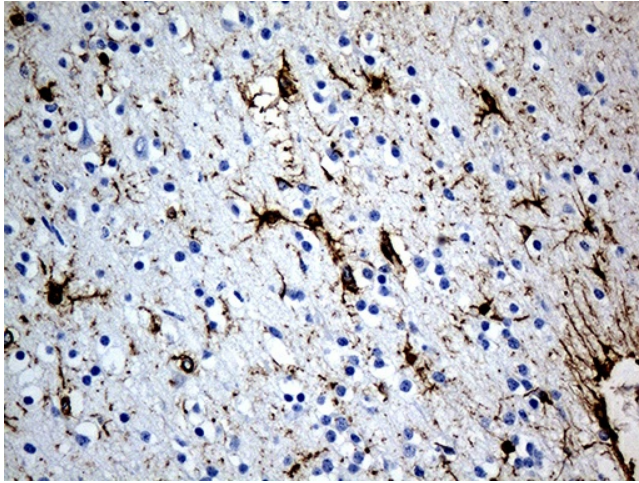
Product images:



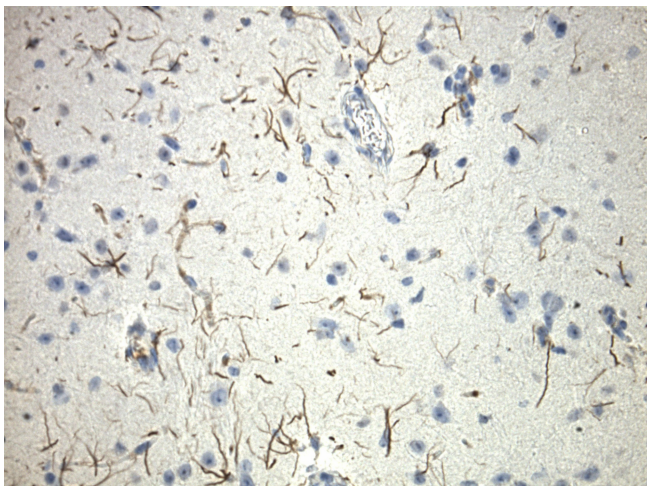
Immunohistochemical staining of paraffin-embedded Human brain tissue using anti-GFAP mouse monoclonal antibody (Clone UMAB5; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min).



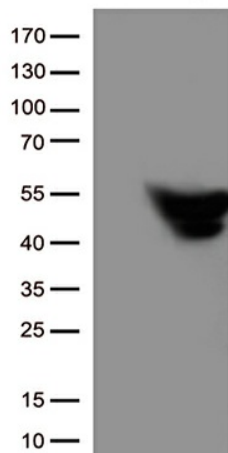
Immunohistochemical staining of paraffin-embedded Human embryonic brain tissue using anti-GFAP mouse monoclonal antibody (Clone UMAB5; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min).



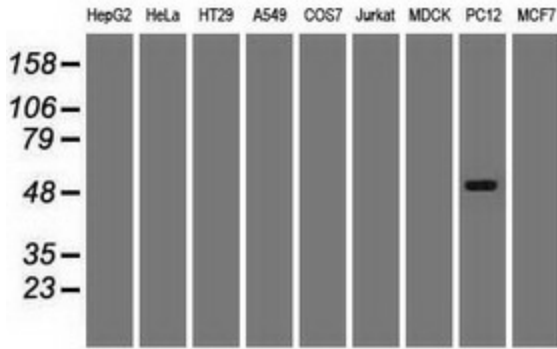
Immunohistochemical staining of paraffin-embedded Human adult brain tissue within the normal limits using anti-GFAP mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [UM500005]) (1:500)



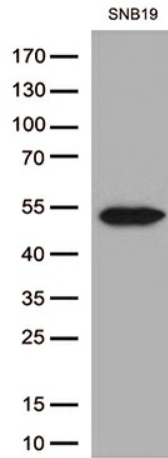
Immunohistochemical staining of paraffin-embedded mouse brain tissue using anti-GFAP clone UMAB5 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500005] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



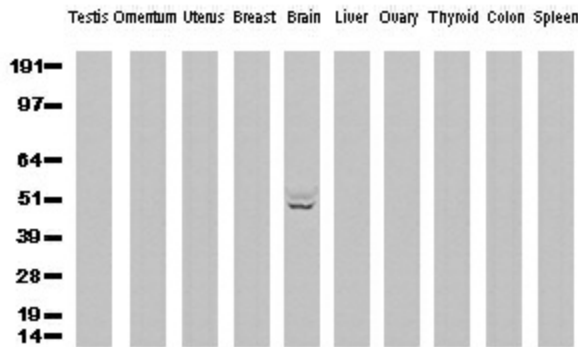
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GFAP ([RC204548], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GFAP (1:500).



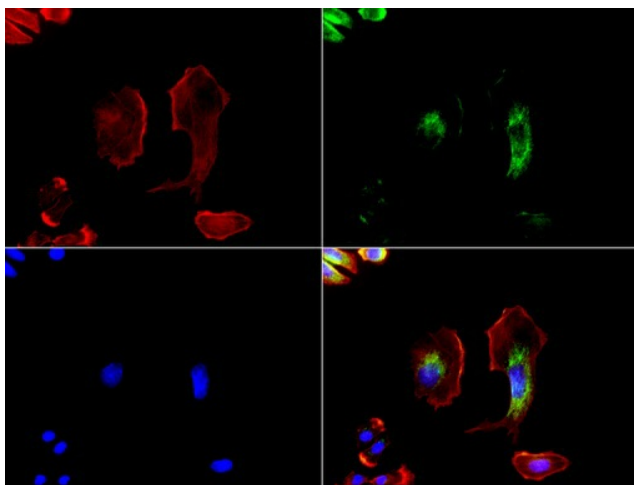
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GFAP monoclonal antibody (Clone UMAB5).



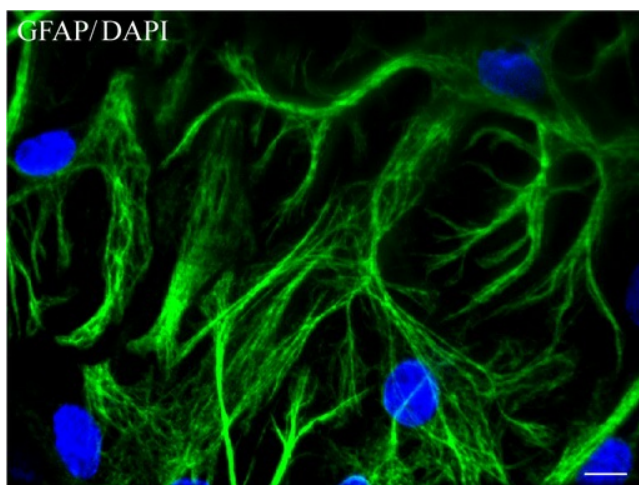
Western blot analysis of extracts (35ug) from 1 cell line lysate and 1 tissue lysate by using anti-GFAP monoclonal antibody (1:500).



Western Blot analysis of 10 different human tissue lysates (10ug) by using anti-GFAP monoclonal antibody (clone UMAB5, 1:500)



Immunofluorescent staining of PC-12 cells using GFAP mouse monoclonal antibody ([UM500005], green). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.



Confocal immunofluorescence image of primary rat neurons labeled with anti-GFAP mouse monoclonal antibody ([UM500005], green, 1:100) and with DAPI (blue) for nuclear. Scale bar, 10um.