

Product datasheet for **CF500340**

GFAP Mouse Monoclonal Antibody [Clone ID: OTI5D7]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5D7
Applications:	WB
Recommended Dilution:	WB: 1:200 - 1:1000, IHC 1:50
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full-length protein expressed in 293T cell transfected with human GFAP expression vector
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:

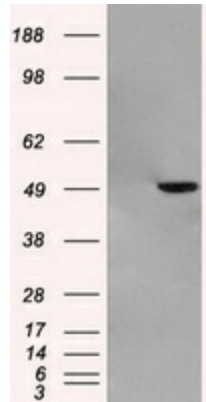
This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative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

Synonyms:

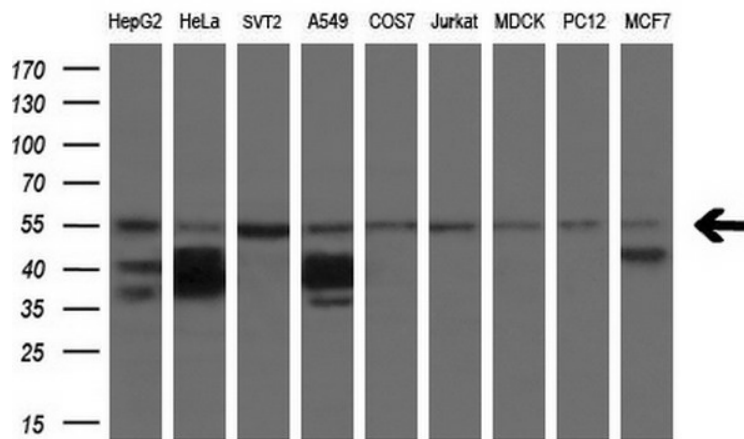
ALXDRD

Protein Families:

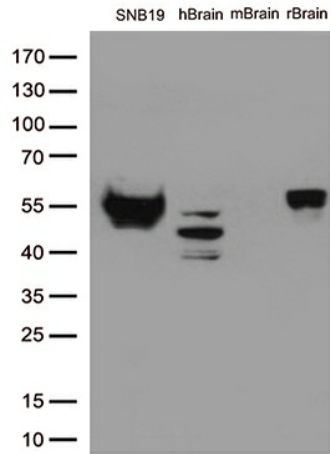
ES Cell Differentiation/IPS

Product images:


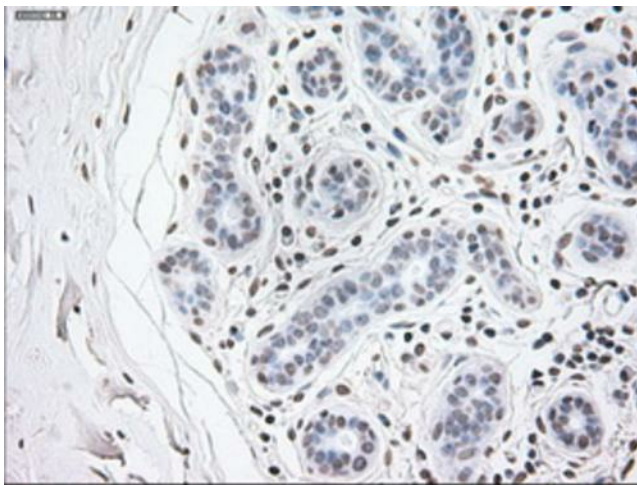
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GFAP ([RC204548], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GFAP (1:2000).



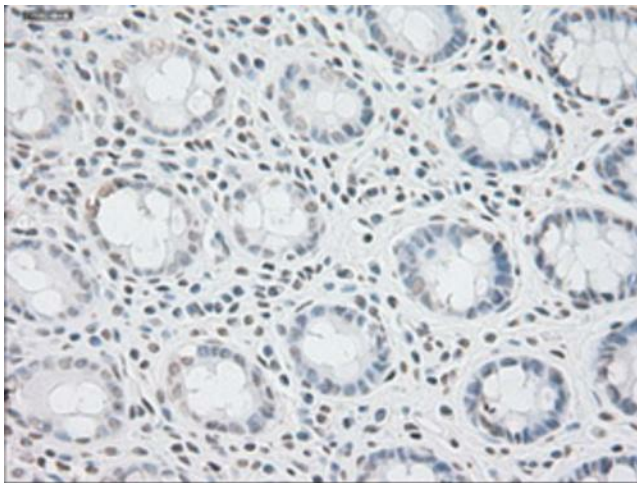
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-GFAP monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:200).



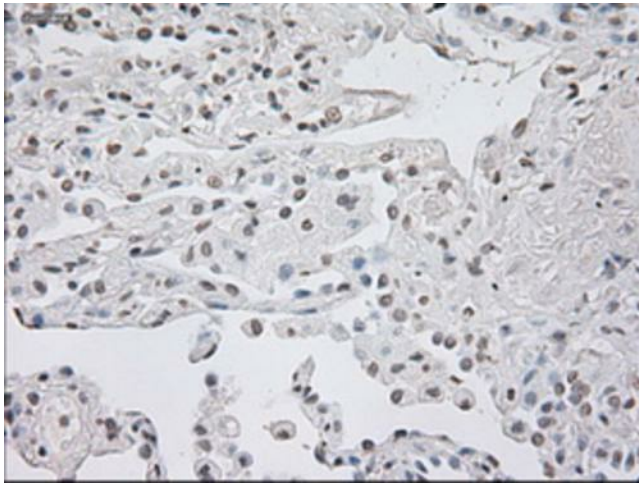
Western blot analysis of extracts (35ug) from 3 cell lines lysates and 1 tissue lysate by using anti-GFAP monoclonal antibody (1:500).



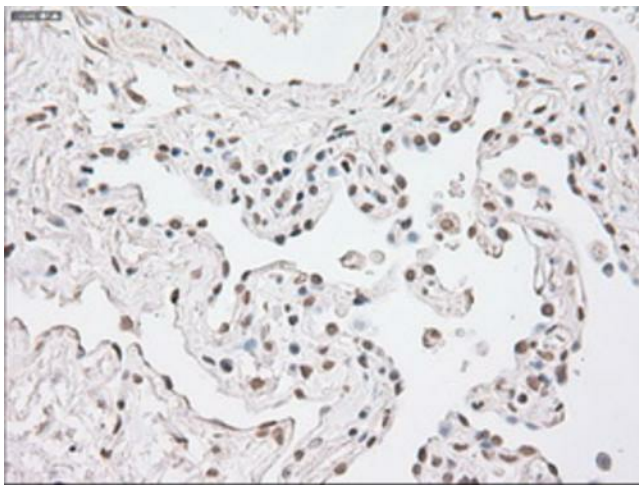
Immunohistochemical staining of paraffin-embedded breast tissue within the normal limits using anti-GFAP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500340], Dilution 1:50)



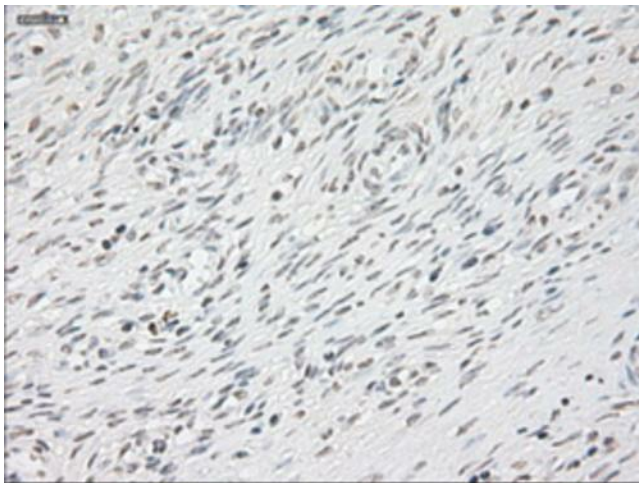
Immunohistochemical staining of paraffin-embedded colon tissue within the normal limits using anti-GFAP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500340], Dilution 1:50)



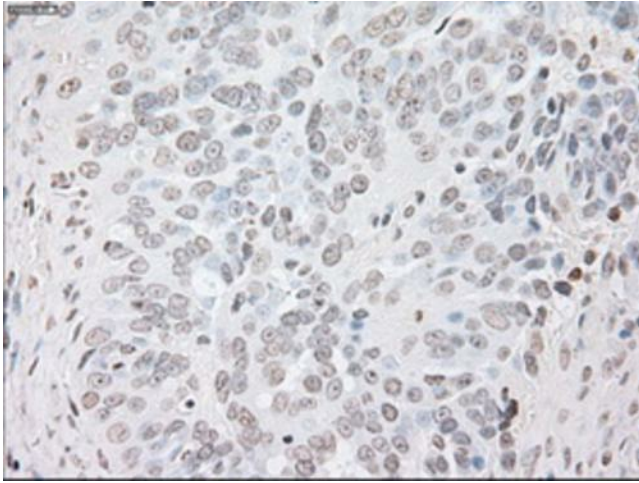
Immunohistochemical staining of paraffin-embedded lung tissue within the normal limits using anti-GFAP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500340], Dilution 1:50)



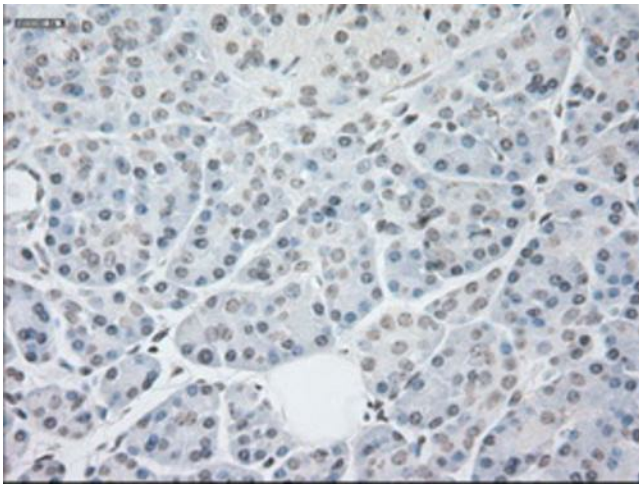
Immunohistochemical staining of paraffin-embedded Carcinoma of lung tissue using anti-GFAP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500340], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Ovary tissue within the normal limits using anti-GFAP mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500340], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-GFAPmouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500340], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-GFAPmouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500340], Dilution 1:50)