

## Product datasheet for **UM570005**

### GFAP Mouse Monoclonal Antibody [Clone ID: UMAB5]

#### Product data:

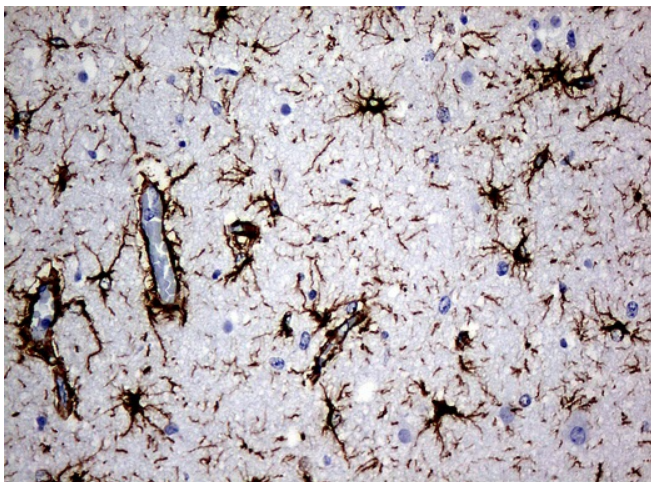
|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | UMAB5   |
| Applications:           | IF, IHC, WB   |
| Recommended Dilution:   | WB 1:500~1000, IHC 1:50, IF 1:100   |
| Reactivity:             | Human, Rat, Mouse   |
| Host:                   | Mouse   |
| Isotype:                | IgG1  |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human GFAP (NP_002046) produced in HEK293T cell.   |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 0.5~1.0 mg/ml (Lot Dependent)   |
| 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:          | <a href="#">NP_002046</a><br><a href="#">Entrez Gene 14580 Mouse</a> <a href="#">Entrez Gene 24387 Rat</a> <a href="#">Entrez Gene 2670 Human</a><br><a href="#">P14136</a>   |
| 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. |


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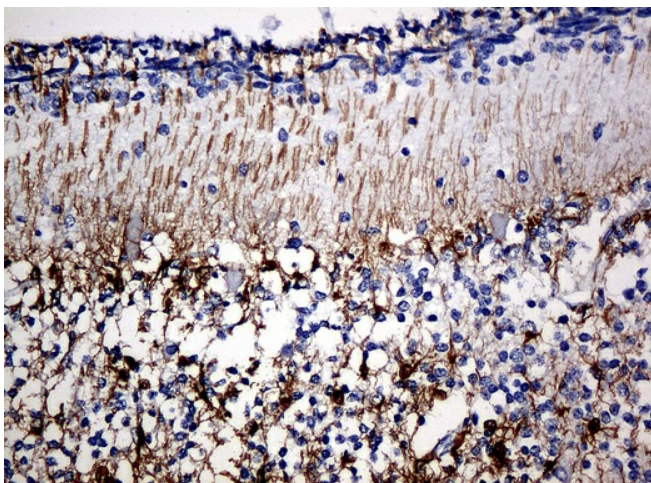
**Synonyms:** ALXDRD

**Protein Families:** ES Cell Differentiation/IPS

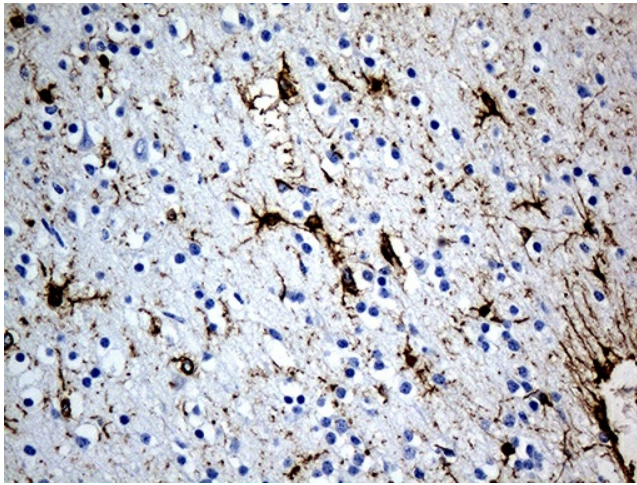
**Product images:**



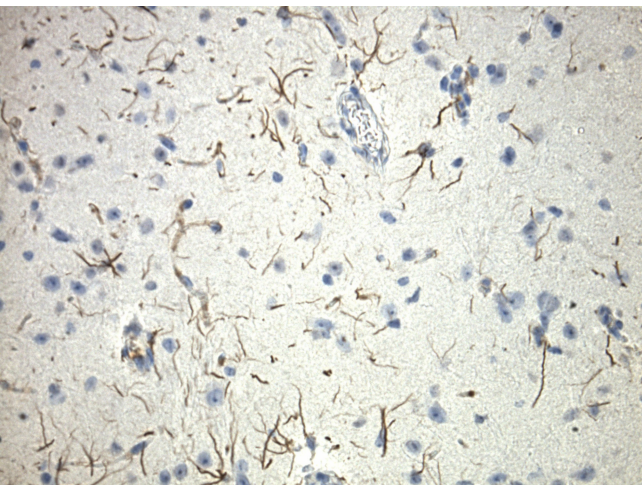
Immunohistochemical staining of paraffin-embedded Human brain tissue using anti-GFAP mouse monoclonal antibody (Clone UMAB5; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min).



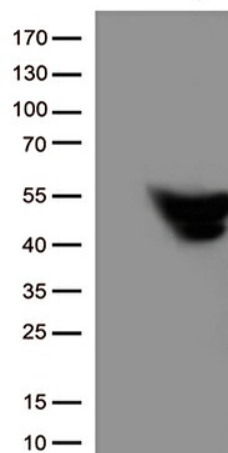
Immunohistochemical staining of paraffin-embedded Human embryonic brain tissue using anti-GFAP mouse monoclonal antibody (Clone UMAB5; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min).



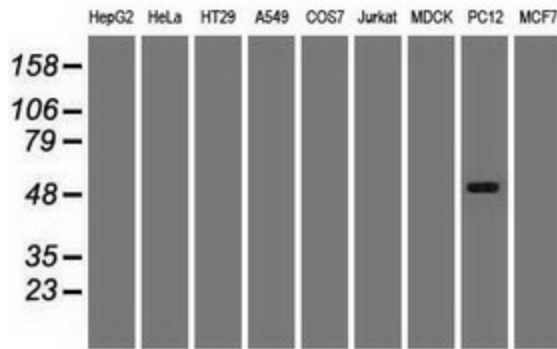
Immunohistochemical staining of paraffin-embedded Human adult brain tissue within the normal limits using anti-GFAP mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [UM500005] (1:500)



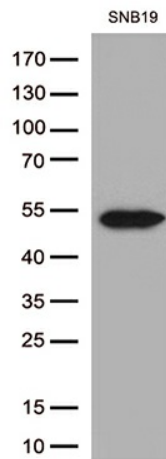
Immunohistochemical staining of paraffin-embedded mouse brain tissue using anti-GFAP clone UMAB5 mouse monoclonal antibody. HIER TEE buffer pH9 ([B21-100]) at 110C for 10 min, [UM500005] (1:100). Detection was done with Klear Mouse (C/N [D52-18]) DAB Kit.



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).

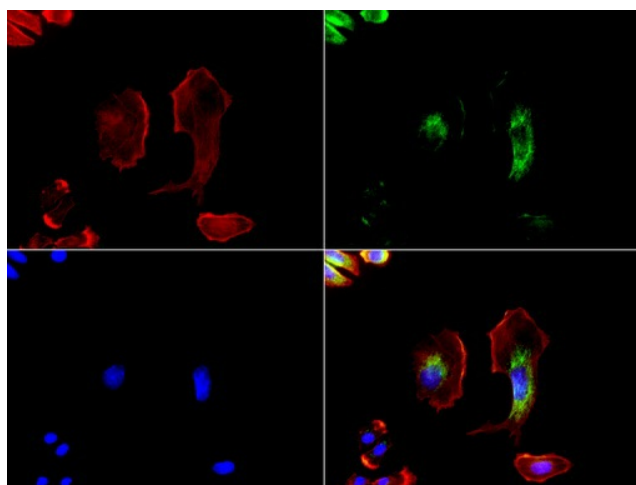


Western blot analysis of extracts (35ug) from 1 cell line lysate and 1 tissue lysate by using anti-GFAP monoclonal antibody (1:500).

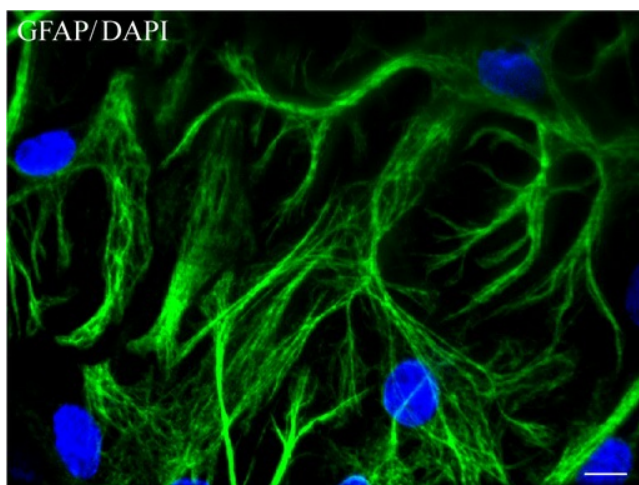


Western Blot analysis of 10 different human tissue lysates (10ug) by using anti-GFAP monoclonal antibody (clone UMAB5, 1:500)





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.