

## Product datasheet for **CF500344**

### GFAP Mouse Monoclonal Antibody [Clone ID: OTI2F7]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI2F7   |
| Applications:           | IF, IHC, WB  |
| Recommended Dilution:   | WB 1:2000, IF 1:100  |
| 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: | 49.88 kDa  |
| Gene Name:              | glial fibrillary acidic protein  |
| Database Link:          | <a href="#">NP_002046</a><br><a href="#">Entrez Gene 14580 MouseEntrez Gene 24387 RatEntrez Gene 2670 Human P14136</a>   |



[View online »](#)

**Background:**

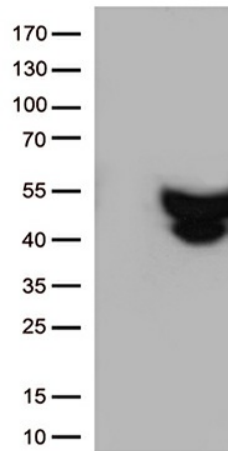
This gene encodes one of the major intermediate filament proteins of mature astrocytes. It is used as a marker to distinguish astrocytes from other glial cells during development. Mutations in this gene cause Alexander disease, a rare disorder of astrocytes in the central nervous system. Alternative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

**Synonyms:**

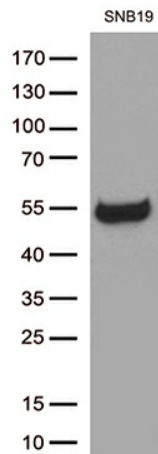
ALXDRD

**Protein Families:**

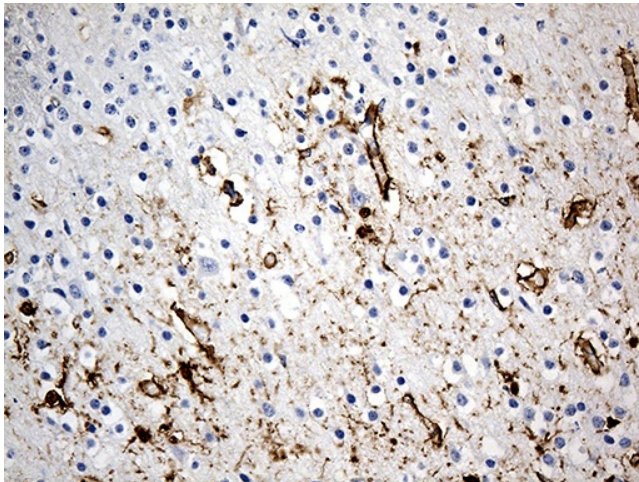
ES Cell Differentiation/IPS

**Product images:**

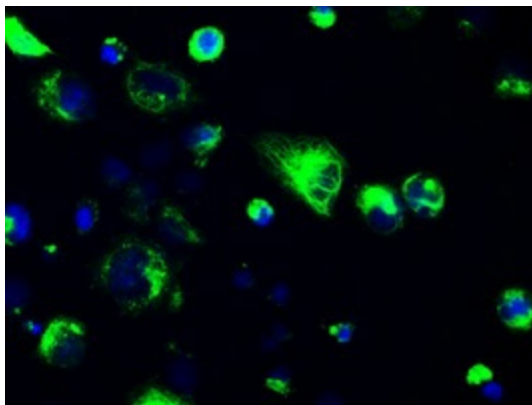
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GFAP ([RC204548], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GFAP (1:500).



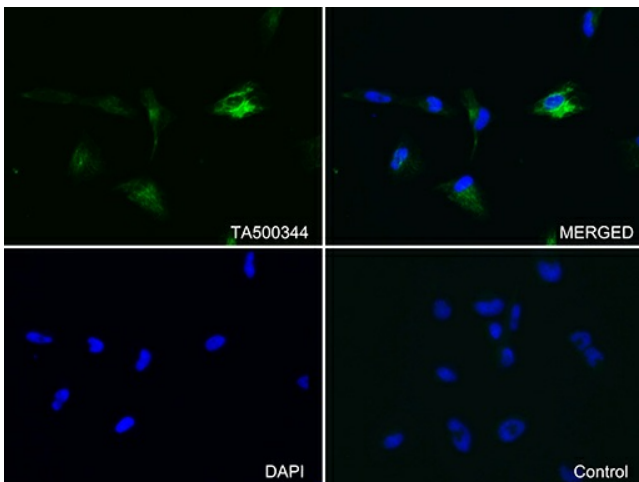
Western blot analysis of extracts (35ug) from 1 cell line lysate by using anti-GFAP monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Human adult brain tissue within the normal limits using anti-GFAP mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-GFAP mouse monoclonal antibody ([TA500344]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GFAP ([RC204548]). (The nuclei were counter-stained in blue.)



Immunofluorescent staining of SNB-19 cells using anti-GFAP antibody ([TA500344]/green, upper left; DAPI/blue, lower left; MERGED, upper right) or Isotype control (MERGED, lower right) (1:100).