

**GFAP Antibody**  
**GFAP Antibody, Clone S206A-8**  
**Catalog # ASM10275****Specification**

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**GFAP Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P14136</a>
Other Accession	<a href="#">NP_001124491.1</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Human GFAP Monoclonal IgG1

**Target/Specificity**

Detects ~50kDa. Cross-reacts with GFAP-R416W and other GFAP mutant proteins.

**Other Names**

Glial fibrillary acidic protein Antibody, Intermediate filament protein Antibody, Astrocyte Antibody, gfapl Antibody, DKFZp459C0729 Antibody, MGC139638 Antibody, FLJ45472 Antibody, AI836096 Antibody, GFAP Antibody

**Immunogen**

Synthetic peptide amino acids 411-422 (KTVEMRDGEVIK) of human GFAP; 100% identical in rat and mouse

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

1 µg/ml of SMC-441 was sufficient for detection of GFAP in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

**Cellular Localization**

Cytoplasm

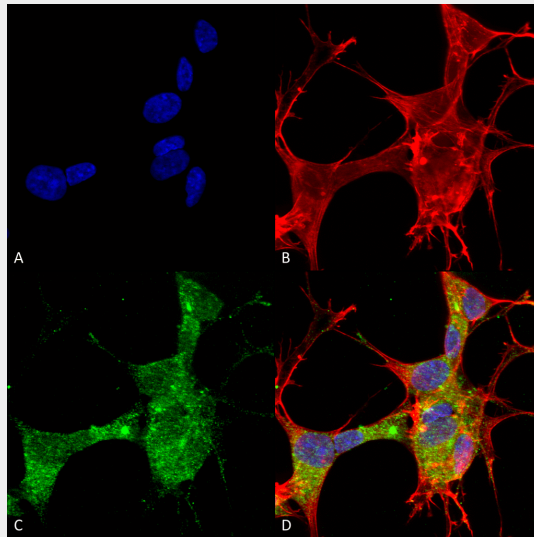
**GFAP Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

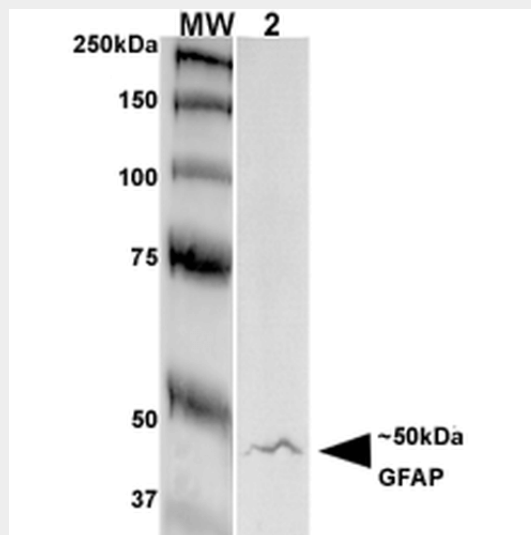
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### GFAP Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GFAP Monoclonal Antibody, Clone N206A/8 (ASM10275). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GFAP Monoclonal Antibody (ASM10275) at 1:50 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) GFAP Antibody (D) Composite.



Western Blot analysis of Rat Brain Membrane showing detection of GFAP protein using Mouse Anti-GFAP Monoclonal Antibody, Clone N206A/8 (ASM10275). Primary Antibody: Mouse Anti-GFAP Monoclonal Antibody (ASM10275) at 1:250.

### GFAP Antibody - Background

The 50 kDa type III intermediate filament protein glial fibrillary acidic protein (GFAP) is a major structural component of astrocytes. GFAP associates with the calcium binding protein annexin II-p2 and S-100. Association with these proteins together with phosphorylation regulates GFAP polymerization. Astrocytes respond to brain injury by proliferating (astrogliosis), and one of the first events to occur during astrocyte proliferation is increased GFAP expression. Interestingly, antibodies to GFAP have been detected in individuals with dementia.

### **GFAP Antibody - References**

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2. Bonnin J.M., et al. (1984) *Acta Neuropathology*. 62:185.
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4. Trojanowski JQ et al. (1986) *J. Neurochem*. 6(3): 650-660 (1986).
5. Schmidt ML et al; *Lab Invest* 56:282-294 (1987).
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8. Mokuna, K, et al; *J Neurosci Res* 23:396 (1989).
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10. Tohyama T et al; *Am J Pathol*, 142:871-882 (1993).
11. Tohyama T et al; *Am J Pathol* 142:883-892 (1993).
12. Thilenius, A.R.B., et al; *J. Immunol*. 162(2): 643-650 (1999).