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## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Anti-GFAP R416WT Antibody [S206B-9]

Mouse Anti-Human GFAP R416WT Monoclonal IgG1  
Catalog No. SMC-442



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

GFAP R416WT Antibody

### Description

Mouse Anti-Human GFAP R416WT Monoclonal IgG1

### Species Reactivity

Human, Mouse, Rat

### Applications

WB, IHC, ICC/IF

### Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

### Host Species

Mouse

### Immunogen Species

Human

### Immunogen

Synthetic peptide amino acids 411-422 (KTVEMRDGEVIK) of human GFAP; 100% identical in rat and mouse. >50% identity with other proteins (Vimentin, Desmin and Peripherin).

### Concentration

1 mg/ml

### Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

## Properties

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### Storage Buffer

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

### Storage Temperature

-20°C

### Shipping Temperature

Blue Ice or 4°C

### Purification

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Protein G Purified

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**Clonality**

Monoclonal

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**Clone Number**

S206B-9

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**Isotype**

IgG1

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**Specificity**

Detects ~50kDa. Does not cross-react with GFAP-R416W or other proteins (based on KO validation results).

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**Cite This Product**

Mouse Anti-Human GFAP Monoclonal, Clone S206B-9 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-442)

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**Certificate Of Analysis**

1 µg/ml of SMC-442 was sufficient for detection of GFAP R416WT in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

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**Biological Description**

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**Alternative Names**

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

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**Research Areas**

Astrocyte Markers, Cell Structure, Neuroscience

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**Cellular Localization**

Cytoplasm

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**Accession Number**

NP\_001124491.1

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**Gene ID**

2670

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**Swiss Prot**

P14136

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**Scientific 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.

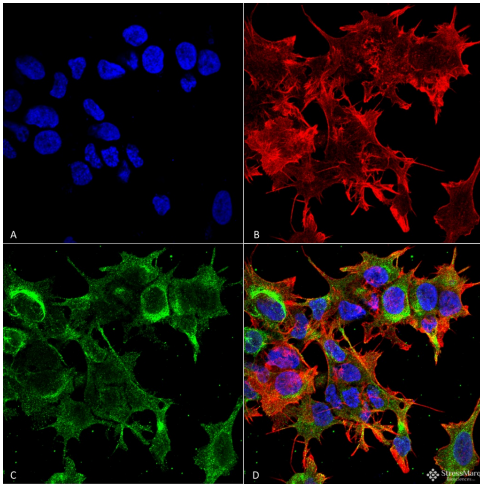
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**References**

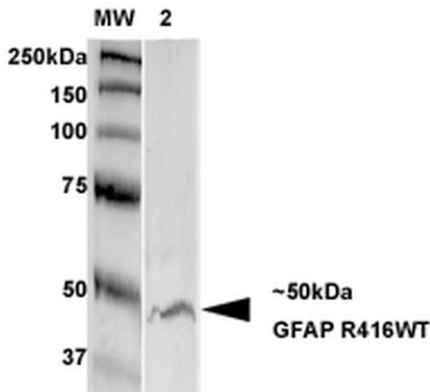
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8. Mokuna, K, et al; J Neurosci Res 23:396 (1989).
9. Molenaar, et al; Exp Neurology 108:1-9 (1990).
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## Product Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GFAP R416WT Monoclonal Antibody, Clone S206B-9 (SMC-442). Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GFAP R416WT Monoclonal Antibody (SMC-442) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cytoplasm . Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GFAP R416WT Antibody (D) Composite.



Western Blot analysis of Rat Brain Membrane showing detection of GFAP protein using Mouse Anti-GFAP Monoclonal Antibody, Clone S206B-9 (SMC-442). Primary Antibody: Mouse Anti-GFAP Monoclonal Antibody (SMC-442) at 1:250.

## Product Citations (0)

Currently there are no citations for this product.

## Reviews

There are no reviews yet.