Technical Data Sheet

Purified Mouse Anti-GFAP

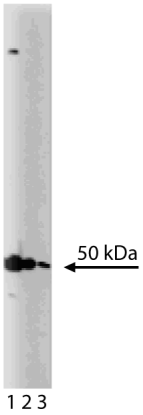
Product Information

Material Number:	**610566**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	52/GFAP
Immunogen:	Human GFAP aa. 418-432
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Chicken, Mouse, Rat
Target MW:	50 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

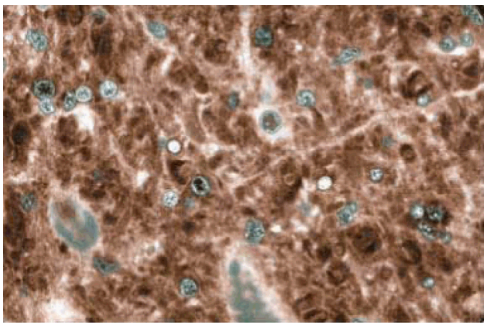
Description

The cytoskeleton is an array of highly ordered filaments that maintains the shape, structure, and functionality of cells. There are three major types of filaments: actin filaments, microtubules, and intermediate filaments. The distinctions among them are based on protein composition and arrangements. **G**lial **f**ibrillary **a**cidic **p**rotein (GFAP) is a 50 kDa component of the intermediate filaments and was originally identified in astrocytes. The overall structure of GFAP, which confirms its similarities to other intermediate filament proteins, indicates a central rod of about 130 amino acids flanked by coiled regions. GFAP has been extensively used as an immunohistochemical marker for tumors derived from astroglia.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of GFAP on SW13 lysate. *Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-GFAP antibody.*



Immunofluorescent staining of Rabbit Brain tissue section.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Not Recommended

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
611475	SW-13 Cell Lysate	500 µg	(none)
554001	FITC Goat Anti-Mouse Igs (Multiple Adsorption)	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Reeves SA, Helman LJ, Allison A, Israel MA. Molecular cloning and primary structure of human glial fibrillary acidic protein. *Proc Natl Acad Sci U S A.* 1989; 86(13):5178-5182.(Biology)

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