

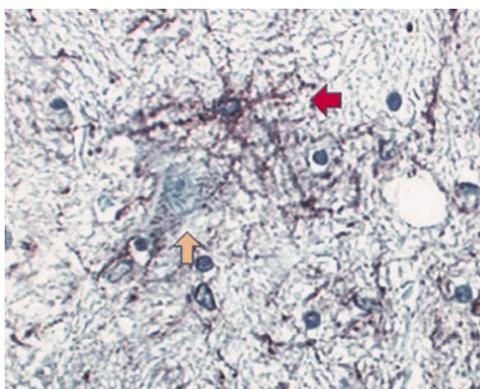
Technical Data Sheet

Purified Mouse Anti-GFAP**Product Information**

Material Number:	556327
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	4A11
Immunogen:	Cow spinal cord homogenate
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Cow, Sheep, Dog, Pig, Rabbit, Guinea Pig, Chicken
Target MW:	50 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

GFAP (Glial Fibrillary Acid Protein) is the major protein of glial filaments in differentiated astrocytes. BD Biosciences Pharmingen offers a panel of monoclonal antibodies (4A11, 1B4, 2E1) that specifically recognize GFAP. They do not cross-react with other intermediate filaments such as vimentin, neurofilament proteins, desmin, keratin, neurotubules or microfilaments. Clone 4A11 is specific for GFAP. Bovine spinal cord homogenate was used as immunogen. This antibody has broad species reactivity, recognizing GFAP in brain homogenates from human, mouse, rat, bovine, ovine, canine, porcine, rabbit, guinea pig and chicken. 4A11 is particularly useful for identifying GFAP in immunohistochemistry of frozen and formalin-fixed, paraffin-embedded brain tissue sections. Additional applications include western blot analysis and indirect immunofluorescence of tissue-cultured cells. BD Biosciences Pharmingen offers additional GFAP specific antibodies: clone 2E1 (Cat. No. 556329), 1B4 (Cat. No. 556328), and clones 1B4, 4A11, 2E1 combined and available as a “cocktail” (Cat. No. 556330).



Formalin-fixed, paraffin embedded section of human brain stained for GFAP (clone 4A11, Cat. No. 556327) using a DAB chromogen and hematoxylin counterstain. Red arrow indicates an astrocyte (positive); yellow arrow indicates a neuron (negative).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at 4°C.

Application Notes**Application**

Immunohistochemistry-formalin (antigen retrieval required)	Routinely Tested
Immunofluorescence	Tested During Development
Western blot	Tested During Development

Recommended Assay Procedure:

Applications include immunohistochemical staining of formalin-fixed paraffin-embedded brain tissue sections (25 µg/ml). Other applications not routinely tested at BD Biosciences Pharmingen include indirect immunofluorescence of tissue-cultured cells and western blot analysis (1-2 µg/ml). Rat brain is suggested as a positive control.

BD Biosciences

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Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
556329	Purified Mouse Anti-GFAP	0.5 mg	2E1
556328	Purified Mouse Anti-GFAP	0.5 mg	1B4
556330	Purified Mouse Anti-GFAP Cocktail	0.5 mg	(none)

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.

References

McLendon RE, Bigner DD. Immunohistochemistry of the glial fibrillary acidic protein: basic and applied considerations. *Brain Pathol.* 1994; 4(3):221-228.(Biology)

McLendon RE, Burger PC, Pegram CN, Eng LF, Bigner DD. The immunohistochemical application of three anti-GFAP monoclonal antibodies to formalin-fixed, paraffin-embedded, normal and neoplastic brain tissues. *J Neuropathol Exp Neurol.* 1986; 45(6):692-703.(Clone-specific: Immunohistochemistry)

Pegram CN, Eng LF, Wikstrand CJ, McComb RD, Lee YL, Bigner DD. Monoclonal antibodies reactive with epitopes restricted to glial fibrillary acidic proteins of several species. *Neurochem Pathol.* 1985; 3(2):119-138.(Clone-specific: Immunohistochemistry)