Technical Data Sheet

Purified Mouse Anti-GFAP Cocktail

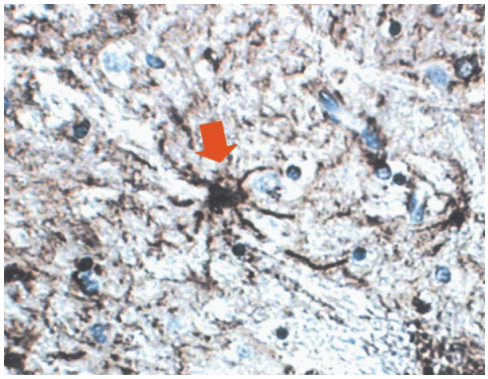
Product Information

Material Number:	**556330**
Size:	0.5 mg
Concentration:	0.5 mg/ml
Reactivity:	QC Testing: Rat Tested in Development: Mouse, Human, Cow, Sheep, Dog, Pig, Rabbit, Guinea Pig, Chicken
Target MW:	50 kDa
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.
Description:	Purified Anti-GFAP
Clone Name:	2E1
Description:	Purified Anti-GFAP
Clone Name:	1B4
Description:	Purified Anti-GFAP
Clone Name:	4A11

Description

GFAP (Glial Fibrillary Acid Protein) is the major protein of glial filaments in differentiated astrocytes. BD 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. Bovine spinal cord homogenate was used as immunogen for these clones. Clones 4A11, 1B4, and 2E1 have broad species reactivity, recognizing GFAP in brain homogenates from human, mouse, rat, bovine, ovine, canine, porcine, rabbit, guinea pig and chicken. The cocktail preparation was made by combining all three antibodies in equal concentrations.

The antibodies are routinely tested by immunohistochemical staining of formalin-fixed, paraffin-embedded brain tissue samples, which were subjected to pretreatment with citrate or tissue unmasking fluid (see figure). Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Formalin-fixed, paraffin-embedded section of human brain stained for GFAP. *A DAB chromogen and hematoxylin counterstain was used. Arrow indicates the stained astrocyte. The antibody cocktail consists of the monoclonal antibodies, clones 4A11, 1B4, 2E1 (Cat. No. 556330).*

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at 4° C.

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Application Notes

Application

Immunohistochemistry-paraffin	Routinely Tested
Immunofluorescence	Tested During Development
Western blot	Reported
Immunohistochemistry-frozen	Reported

Recommended Assay Procedure:

Applications include indirect immunofluorescence of tissue-cultured cells, immunohistochemical staining of formalin-fixed paraffin-embedded brain tissue sections (10-15 µg/ml); and western blot analysis (1-2 µg/ml). Rat brain is suggested as a positive control. BD Pharmingen also offers these GFAP specific antibodies separately: clone 4A11 (Cat. No. 556327), clone 1B4 (Cat. No. 556328) and clone 2E1 (Cat. No. 556329).

Suggested Companion Products

Catalog Number	Name	Size	Clone
551011	Anti-Mouse Ig HRP Detection Kit	200 tests	(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. (Clone-specific)

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, Western blot)

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