Product Datasheet

GFAP Antibody (GA-5) - Azide and BSA Free
NBP2-33184-1mg

Unit Size: 1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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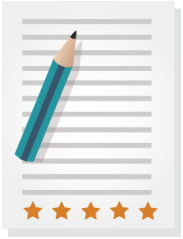


NBP2-33184-1mg

GFAP Antibody (GA-5) - Azide and BSA Free

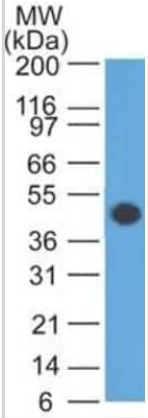
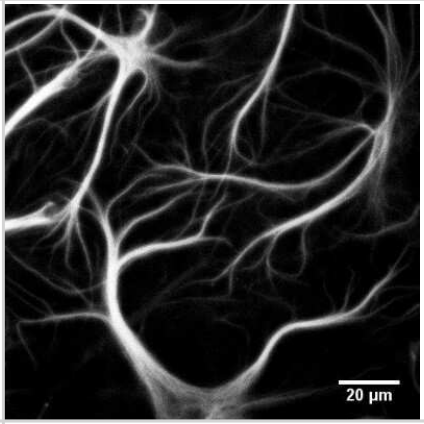
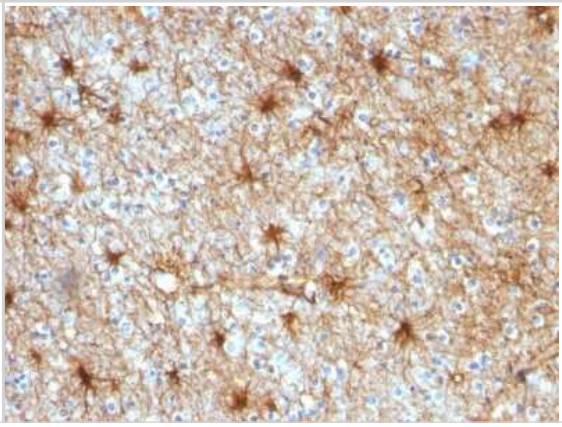
Product Information	
Unit Size	1 mg
Concentration	1.0 mg/ml
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	GA-5
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS
Target Molecular Weight	50 kDa

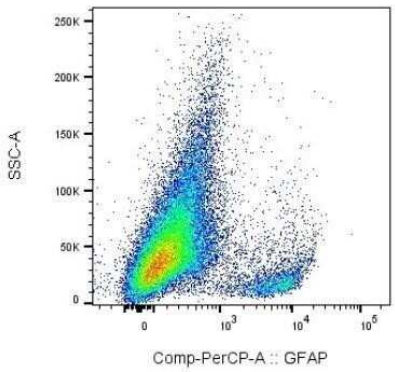
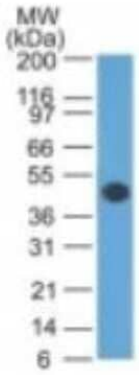
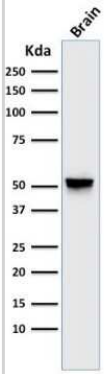
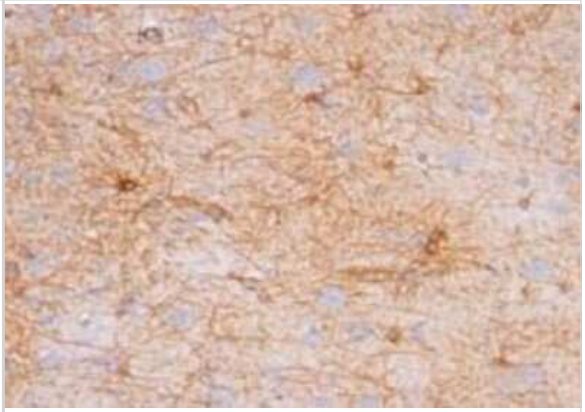
Product Description	
Description	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-29415). Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	2670
Gene Symbol	GFAP
Species	Human, Mouse, Rat, Porcine, Bovine, Chicken, Rabbit
Marker	Astrocyte & Neural Stem Cell Marker
Specificity/Sensitivity	This monoclonal antibody recognizes a protein of ~50kDa which is identified as Glial Fibrillary Acidic Protein (GFAP). It shows no cross-reaction with other intermediate filament proteins. GFAP is specifically found in astroglia. GFAP is a very popular marker for localizing benign astrocyte and neoplastic cells of glial origin in the central nervous system. Antibody to GFAP is useful in differentiating primary gliomas from metastatic lesions in the brain and for documenting astrocytic differentiation in tumors outside the CNS.
Immunogen	GFAP isolated from pig spinal cord (Uniprot: P14136)

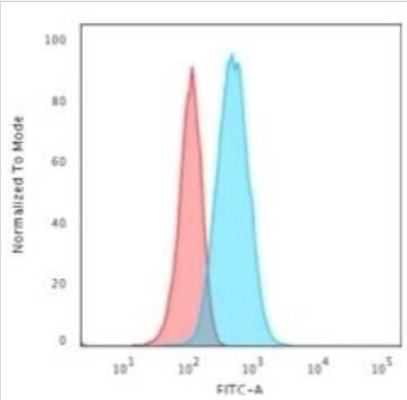
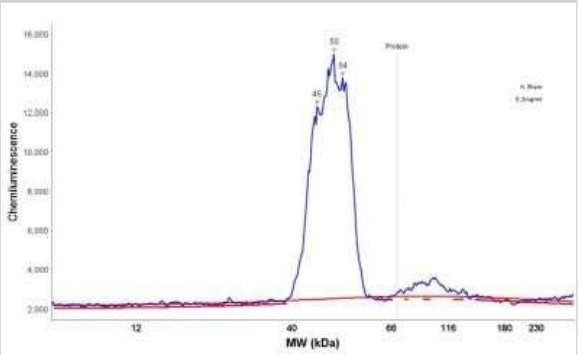
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Simple Western, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen

Application Notes	Immunohistochemistry (Formalin-fixed): 1-2 ug/mL for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. Immunohistochemistry (cryosections): see Tobin et. al. for details. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size.

Images

Western Blot: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Analysis of GFAP in human brain lysate using GFAP (GA5) antibody at 1 ug/mL. goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.	
Immunocytochemistry/Immunofluorescence: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Cultured Rat Hippocampal Neurons. ICC/IF image submitted by a verified customer review.	
Immunohistochemistry-Paraffin: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Formalin-fixed, paraffin-embedded human Cerebellum stained with GFAP Antibody (GA-5).	

Flow Cytometry: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Experimental autoimmune encephalomyelitis was induced in C57BL6/J mice, and mononuclear cells were isolated from the CNS at day 10 (onset of symptoms). Cells were stained for GFAP, Neun, CX3CL1, CXCL12, CCL2, CD45 and CD11b, plus for viability to exclude dead cells. GFAP staining is shown for viable cells. Flow cytometry image submited by a verified customer review.	
Western Blot: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Analysis showing relative size.	
Western Blot: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Western Blot Analysis of human brain tissue lysate using GFAP Antibody (GA-5).	
Immunohistochemistry-Paraffin: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Analysis in human Cerebellum.	

Flow Cytometry: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Flow Cytometric Analysis of T98G cells using GFAP Antibody (GA-5) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).	
Simple Western: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Simple Western lane view shows a specific band for GFAP in 0.2 mg/mL of human brain lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	
Simple Western: GFAP Antibody (GA-5) - Azide and BSA Free [NBP2-33184] - Electropherogram image of the corresponding Simple Western lane. GFAP antibody was used at 10 ug/mL dilution of human brain lysates.	

Publications

Aydin M, Yigit E, Vatandaslar E et al. Transfer and Integration of Breast Milk Stem Cells to the Brain of Suckling Pups Sci Rep 2018-11-13 [PMID: 30250150] (IHC-Fr, Mouse)

Details:
Using the Azide and BSA Free form of this antibody.

Jin L, Ding M, Oklopcic A et al. Nanoparticle fullerol alleviates radiculopathy via NLRP3 inflammasome and neuropeptides. Nanomedicine 2017-08-01 [PMID: 28404518] (IF/IHC, Mouse)

Details:
This citation used the Azide and BSA Free version of this antibody.

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