

Product Datasheet

GFAP Antibody NB100-53809

Unit Size: 0.1 mg

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

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Publications: 22

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NB100-53809

GFAP Antibody

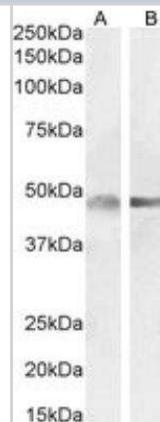
Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	50 kDa

Product Description	
Description	Novus Biologicals Goat GFAP Antibody (NB100-53809) is a polyclonal antibody validated for use in IHC, WB, ELISA and Flow. Anti-GFAP Antibody: Cited in 20 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	2670
Gene Symbol	GFAP
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30264465). Use in rat reported in scientific literature (PMID: 32581708).
Marker	Astrocyte Marker
Specificity/Sensitivity	GFAP is thought to help to maintain astrocyte mechanical strength, as well as the shape of cells but its exact function remains poorly understood, despite the number of studies using it as a cell marker.
Immunogen	This GFAP Antibody was developed against a peptide with sequence C-DGEVIKESKQEHKD corresponding to C-Terminus according to NP_002046.1.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen, Peptide ELISA, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount
Recommended Dilutions	Western Blot 0.005 - 0.1ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Peptide ELISA Detection limit 1:32000, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount
Application Notes	Western blot: Approx 48kDa band observed in Human Cerebellum and Cerebral Cortex lysate and approx 50kDa in Rat Brain lysates and in preliminary testing of Mouse Cerebral Cortex lysate (calculated MW of 49.9kDa according to Human NP_002046.1 and Rat NP_058705.2).

Images

Western Blot: GFAP Antibody [NB100-53809] - (0.005ug/ml) staining of Human Cerebellum (A) and (0.01ug/ml) Cerebral Cortex (B) (35ug protein in RIPA buffer). Detected by chemiluminescence.



Western Blot: GFAP Antibody [NB100-53809] - (0.1 ug/ml) staining of Rat Brain lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.



Publications

Bernou C, Iwasaki Y, Lutz W et al. Assessing the Nature of Human Brain-Derived Extracellular Vesicles on Synaptic Activity Via the Development of an Air-liquid Microfluidic Platform. *Advanced science* (Weinheim, Baden-Wuerttemberg, Germany) 2025-10-05 [PMID: 41047484]

Kofoed RH, Noseworthy K, Wu K et al. The engineered AAV2-HBKO promotes non-invasive gene delivery to large brain regions beyond ultrasound targeted sites *Molecular Therapy - Methods & Clinical Development* 2022-12-08 [PMID: 36284767]

Zhou J, Guo P, Duan M et al. EphA4/EphrinB2 signaling mediates pericyte-induced transient glia limitans formation as a secondary protective barrier after subarachnoid hemorrhage in mice *Exp Neurol* 2023-02-01 [PMID: 36493862]

Duan M, Ru X, Zhou J et al. Endothelial EGLN3-PKM2 signaling induces the formation of acute astrocytic barrier to alleviate immune cell infiltration after subarachnoid hemorrhage *Fluids Barriers CNS* 2024-05-16 [PMID: 38755642]

Rezwanul Islam, Hadi Hasan Choudhary, Hritik Mehta, Feng Zhang, Tudor G Jovin, Khalid A Hanafy Development of a 3D Brain Model to Study Sex-Specific Neuroinflammation After Hemorrhagic Stroke. *Translational stroke research* 2024-04-01 [PMID: 38558012]

Emma Partiot, Barbara Gorda, Willy Lutz, Solène Lebrun, Pierre Khalfi, Stéphan Mora, Benoit Charlot, Karim Majzoub, Solange Desagher, Gowrishankar Ganesh, Sophie Colomb, Raphael Gaudin Organotypic culture of human brain explants as a preclinical model for AI-driven antiviral studies *EMBO Molecular Medicine* 2024-03-12 [PMID: 38472366]

Colvett I, Gilmore A, Guzman S et al. Recipient Reaction and Composition of Autologous Sural Nerve Tissue Grafts into the Human Brain *Journal of Clinical Medicine* 2023-09-22 [PMID: 37834764] (IHC-P, Human)

Schreib CC, Jarvis MI, Terlier T et al. Lipid Deposition Profiles Influence Foreign Body Responses *Advanced materials* (Deerfield Beach, Fla.) 2023-05-01 [PMID: 36871193]

Kim J, de Haro M, Al-Ramahi I et al. Evolutionarily conserved regulators of tau identify targets for new therapies *Neuron* 2022-12-29 [PMID: 36610398] (IHC-FrFI, Mouse)

Details:

Brain samples, dilution used 1:2000

Zhu X, Schrader JM, Irizarry BA et al. Impact of A β 40 and A β 42 Fibrils on the Transcriptome of Primary Astrocytes and Microglia *Biomedicines* 2022-11-19 [PMID: 36428550] (IHC-Fr, Rat)

Details:

Fifteen-month-old rTgF344-AD rat brain sections, dilution used 1:200

Liu X, Tang SS, Liu SM et al. Deficiency of astrocyte CysLT1R ameliorates depression-like behaviors in mice by modulating glutamate synaptic transmission *Neurobiology of disease* 2022-11-10 [PMID: 36371059] (IHC-Fr, Mouse)

Details:

Dilution used in IHC-Fr 1:100

Hogestyn JM, Salois G, Xie L et al. Expression of the human herpesvirus 6A latency-associated transcript U94A impairs cytoskeletal functions in human neural cells *Molecular and cellular neurosciences* 2022-08-30 [PMID: 36055520] (FLOW, Human)

More publications at <http://www.novusbio.com/NB100-53809>





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Products Related to NB100-53809

NB820-59657	Mouse Brain Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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