

Product Datasheet

GFAP Antibody NBP1-05198

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-05198

GFAP Antibody

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.035% Sodium Azide
Isotype	IgY
Purity	IgY purified
Buffer	Supplied as concentrated total IgY preparation from egg yolk. Exact concentration of target specific IgY is not quantifiable as the preparation contains both immune IgY specific for the target and also irrelevant, non-immune IgY.
Target Molecular Weight	50 kDa

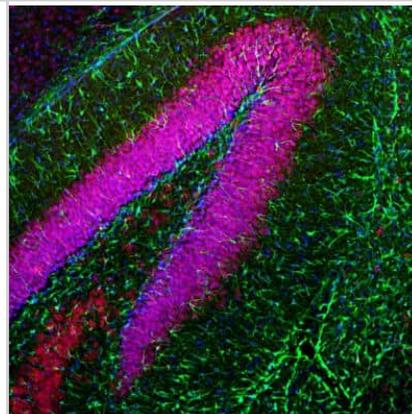
Product Description	
Host	Chicken
Gene ID	2670
Gene Symbol	GFAP
Species	Human, Mouse, Rat, Porcine, Bovine, Equine
Reactivity Notes	Use in Mouse reported in scientific literature (PMID:34525348). .
Marker	Astrocyte Marker
Immunogen	This GFAP Antibody was developed against recombinant full length human GFAP isotype 1 expressed in and purified from E. coli.
Notes	Chicken products cannot be exported to Canada.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:5000, Immunohistochemistry 1:1000 - 1:5000, Immunocytochemistry/ Immunofluorescence 1:1000 - 1:5000, Immunohistochemistry-Frozen 1:1000 - 1:5000, Immunohistochemistry Free-Floating 1:1000 - 1:5000
Application Notes	This GFAP Antibody is useful for Immunocytochemistry/Immunofluorescence, Western blot, and Immunohistochemistry. Use this antibody at about 1:1000 using fluorescent secondary antibodies or 1:5000 using peroxidase or other enzyme linked methods. In Western Blot expect to see a band at 55 kDa and another at about 48 kDa, a breakdown product of the 55 kDa band. Use in IHC-Fr reported in scientific literature (PMID: 30260321).

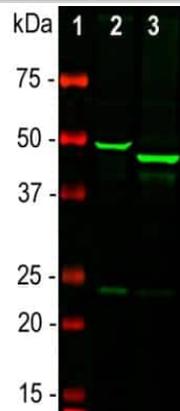


Images

Immunohistochemistry Free-Floating: GFAP Antibody [NBP1-05198] - Staining of a section of mouse hippocampus stained with chicken pAb to GFAP, NBP1-05198, dilution 1:5000 in green and costained with rabbit pAb to FOX3/NeuN, dilution 1:5000, in red. The blue is DAPI staining of nuclear DNA. Following transcardial perfusion with 4% paraformaldehyde, mouse brain was post fixed for 24 hours, cut to 45 μ M, and free-floating sections were stained with the above antibodies. The GFAP antibody stains a network of astroglial cells while the Fox3/NeuN antibody stains the nuclei and proximal perikarya of neurons.



Western Blot: GFAP Antibody [NBP1-05198] - Analysis of whole brain lysates using chicken pAb to GFAP, NBP1-05198, dilution 1:5000 in green: [1] protein standard (red), [2] rat brain, [3] mouse brain. The strong band at about 50 kDa corresponds to the GFAP protein. Smaller proteolytic fragments and alternate transcripts of GFAP may also be detected on such blots.



Publications

De A, Lattier J, Morales J et al. Glial Cell Adhesion Molecule (GlialCAM) and Aquaporin-4 Coordinately Drive Glioblastoma Cell Invasion in the Brain Available at SSRN 2023-03-21

Shipeng Li, Wenfeng Han, Qichen He, Yang Wang, Gang Jin, Youcheng Zhang Ginsenoside Rh2 suppresses colon cancer growth by targeting the miR-150-3p/SRCIN1/Wnt axis. *Acta biochimica et biophysica Sinica* 2023-05-17 [PMID: 36916297]

JW Lee, H Nam, LE Kim, Y Jeon, H Min, S Ha, Y Lee, SY Kim, SJ Lee, EK Kim, SW Yu TLR4 (toll-like receptor 4) activation suppresses autophagy through inhibition of FOXO3 and impairs phagocytic capacity of microglia *Autophagy*, 2018-12-13;0(0):. 2018-12-13 [PMID: 30523761]

Li J, Tian M, Hua T et al. Combination of autophagy and NFE2L2/NRF2 activation as a treatment approach for neuropathic pain *Autophagy* 2021-04-09 [PMID: 33834930]

Wu DM, Liu JP, Liu J et al. Immune pathway activation in neurons triggers neural damage after stroke *Cell reports* 2023-11-01 [PMID: 37917581] (Immunohistochemistry, Mouse)

Bin Imtiaz MK, Royall LN, Gonzalez-Bohorquez D, Jessberger S. Human neural progenitors establish a diffusion barrier in the endoplasmic reticulum membrane during cell division *Development* 2022-10-15 [PMID: 35815653]

Presto P, Ji G, Ponomareva O et al. Hmgb1 Silencing in the Amygdala Inhibits Pain-Related Behaviors in a Rat Model of Neuropathic Pain *International Journal of Molecular Sciences* 2023-07-26 [PMID: 37569320] (IHC-Fr, Rat)

Details:

Dilutions: 1:1000

Li L, Sun Y, Davis AE et al. Mettl14-mediated m6A modification ensures the cell-cycle progression of late-born retinal progenitor cells *Cell reports* 2023-06-01 [PMID: 37269288]

Bright A Differential Recruitment of Bone Marrow-Derived Cells into the Injured Retina Thesis 2023-01-01

Tang AT, Buchholz DW, Szigety KM et al. Cell-autonomous requirement for ACE2 across organs in lethal mouse SARS-CoV-2 infection *PLoS biology* 2023-02-01 [PMID: 36745682] (IHC, Mouse)

Badr M, McFleder RL, Wu J et al. Expansion of regulatory T cells by CD28 superagonistic antibodies attenuates neurodegeneration in A53T- alpha -synuclein Parkinson's disease mice *Journal of neuroinflammation* 2022-12-31 [PMID: 36587195] (IHC-Fr, Mouse)

Details:

Dilution used in IHC-Fr 1:5,000

Freel BA, Kelvington BA, Sengupta S et al. Sterol dysregulation in Smith-Lemli-Opitz syndrome causes astrocyte immune reactivity through microglia crosstalk *Disease models & mechanisms* 2022-12-01 [PMID: 36524414] (ICC/IF, Mouse)

More publications at <http://www.novusbio.com/NBP1-05198>



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Products Related to NBP1-05198

BAF010	Goat anti-Chicken IgY Secondary Antibody [Biotin]
NB7276	Goat anti-Chicken IgM Heavy Chain Secondary Antibody
H00002670-Q01-10ug	Recombinant Human GFAP GST (N-Term) Protein
210-TA-005	TNF-alpha [Unconjugated]

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