

Product Datasheet

GFAP Antibody - BSA Free

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 - BSA Free

| 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 | 0.02% Sodium Azide |
| Isotype | IgY |
| Purity | IgY purified |
| Buffer | Supplied as a concentrated total IgY preparation from egg yolk, dialyzed against PBS with added preservative. |
| Target Molecular Weight | 50 kDa |

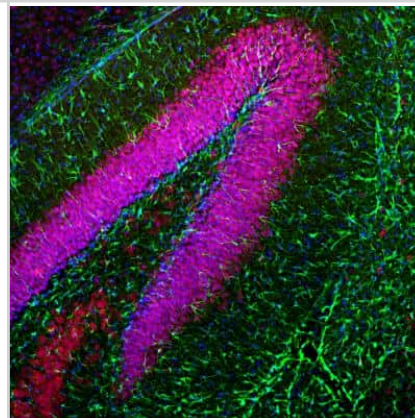
| Product Description | |
|-------------------------|--|
| Description | <p>This antibody is supplied as a concentrated total IgY preparation derived from egg yolk. Production involves an initial organic extraction to remove lipids and lipoproteins, followed by salt fractionation of the aqueous phase to precipitate and enrich the IgY fraction. The material is then extensively dialyzed against PBS, and preservative is added during final formulation.</p> <p>Please note that the exact concentration of target-specific IgY cannot be determined, as the final preparation contains both antigen-specific IgY and non-immune IgY.</p> |
| 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). |

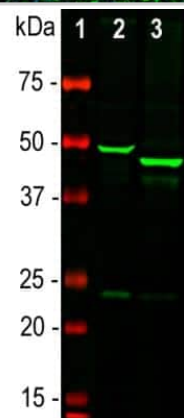


Images

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

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]

Mayagoitia K, Tolan Aj, Shammi S Et Al. Loss of APP in mice increases thigmotaxis and is associated with elevated brain expression of IL-13 and IP-10/CXCL10 *Physiology & behavior* 2021-07-19 [PMID: 34293404]

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]

K Pandit, J Petrescu, M Cuevas, W Stephenson, P Smibert, H Phatnani, S Maniatis An open source toolkit for repurposing Illumina sequencing systems as versatile fluidics and imaging platforms *Scientific Reports*, 2022-03-24;12(1):5081. 2022-03-24 [PMID: 35332182]

Luongo R, Walsh RM, Verrillo A, Studer L et Al. Protocol for generating human cortical organoids enriched in outer radial glia by guided differentiation *STAR Protoc* 2024-08-30 [PMID: 39213150]

Nugent M, St Pierre M, Brown A et Al. Sexual Dimorphism in the Closure of the Hippocampal Postnatal Critical Period of Synaptic Plasticity after Intrauterine Growth Restriction: Link to Oligodendrocyte and Glial Dysregulation *Dev Neurosci* 2022-11-03 [PMID: 37019088]

Escarcega RD, M J VK, Kyriakopoulos VE et Al. Serum metabolome profiling in patients with mild cognitive impairment reveals sex differences in lipid metabolism *Neurobiol Dis* 2024-11-29 [PMID: 39617329]

Walsh, RM;Luongo, R;Giacomelli, E;Ciceri, G;Rittenhouse, C;Verrillo, A;Galimberti, M;Bocchi, VD;Wu, Y;Xu, N;Mosole, S;Muller, J;Vezzoli, E;Jungverdorben, J;Zhou, T;Barker, RA;Cattaneo, E;Studer, L;Baggiolini, A; Generation of human cerebral organoids with a structured outer subventricular zone *Cell reports* 2024-04-05 [PMID: 38583153]

Sethi P, Virmani G, Gupta K et Al. Automated morphometric analysis with SMorph software reveals plasticity induced by antidepressant therapy in hippocampal astrocytes *J Cell Sci* 2021-07-12 [PMID: 34137444]

Uh K, Monarch K, Reese ED et al. Impaired Skeletal Development by Disruption of Presenilin-1 in Pigs and Generation of Novel Pig Models for Alzheimer's Disease *Journal of Alzheimer's Disease* 2024-08-21 [PMID: 39177593]

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]

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





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Products Related to NBP1-05198

| | |
|--------------------|--|
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| 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 |

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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