# **Product Datasheet**

# GFAP Antibody (GA-5) NBP2-29415

Unit Size: 0.1 mg

Store at 4C.



#### Reviews: 2 Publications: 19

Protocols, Publications, Related Products, Reviews, Research Tools and Images at: www.novusbio.com/NBP2-29415

Updated 7/16/2024 v.20.1

# Earn rewards for product reviews and publications.

Submit a publication at www.novusbio.com/publications Submit a review at www.novusbio.com/reviews/destination/NBP2-29415



#### NBP2-29415

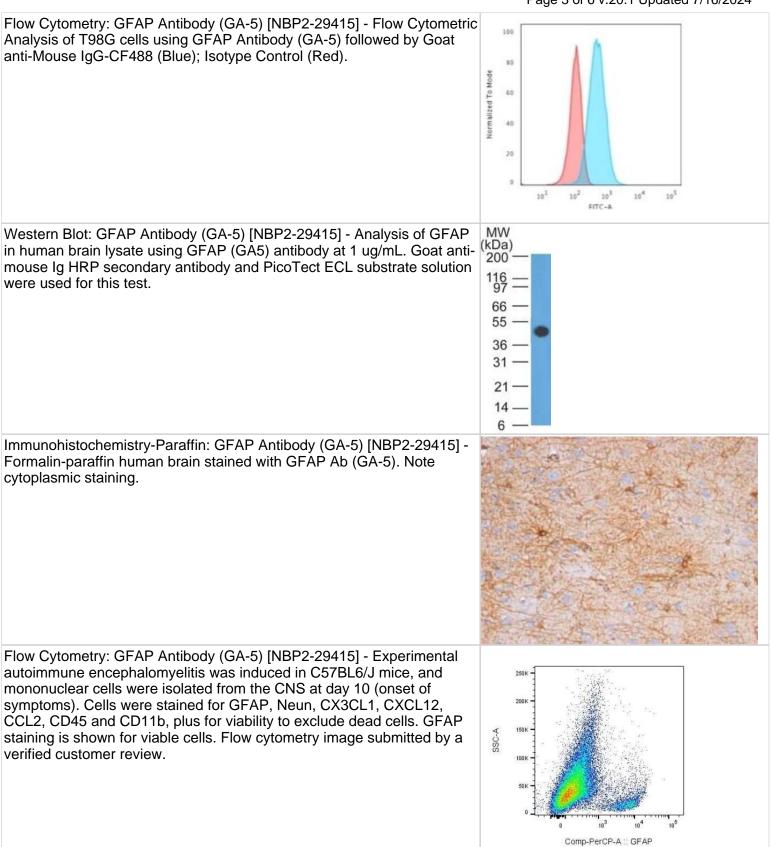
GFAP Antibody (GA-5)

Product Information		
Unit Size	0.1 mg	
Concentration	0.2 mg/ml	
Storage	Store at 4C.	
Clonality	Monoclonal	
Clone	GA-5	
Preservative	0.05% Sodium Azide	
Isotype	IgG1 Kappa	
Purity	Protein A or G purified	
Buffer	10 mM PBS with 0.05% BSA	
Target Molecular Weight	50 kDa	
Product Description		
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33184) 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 1-2 ug/ml, Simple Western 10 ug/mL, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml, Immunohistochemistry-Frozen 0.5 - 1 ug/mL	



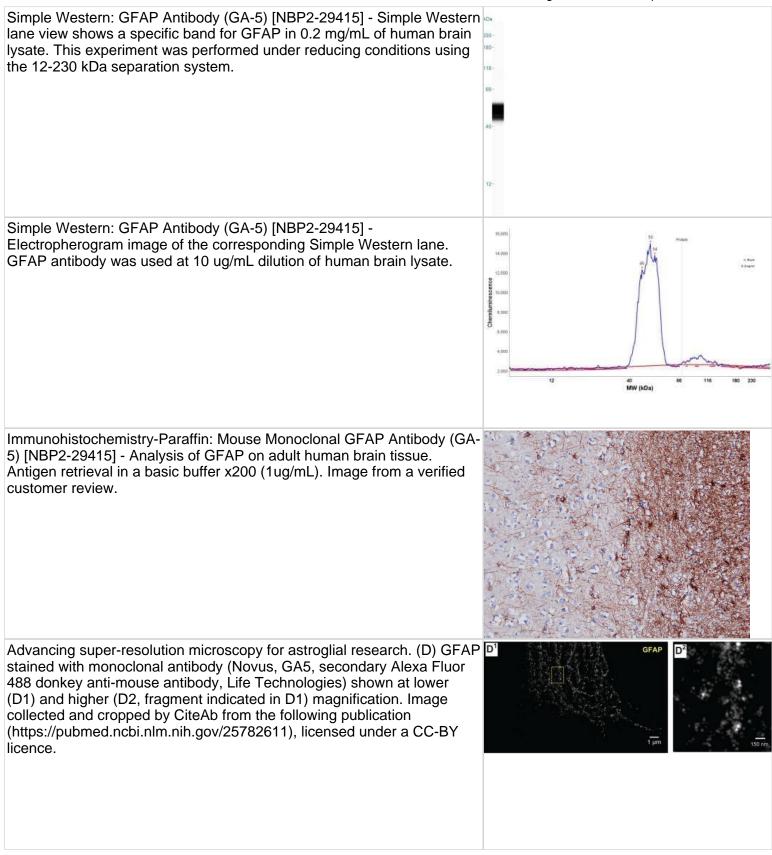
	Page	2 of 6 v.20.1 Updated 7/16/2024
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2 ug/mL of formalin-fixed tissues requires heating tissue sec EDTA, pH 9.0, for 45 min at 95C followed by cooling Optimal dilution for a specific application should be Immunohistochemistry (cryosections): see Tobin et In Simple Western only 10 - 15 uL of the recommen point. Separated by Size.	tions in 10 mM Tris with 1mM g at RT for 20 minutes. determined. . al. for details.
Images	point. Separated by Size.	
Immunocytochemistry/Imm	aunofluorescence: GFAP Antibody (GA-5) Pat Hippocampal Neurons. ICC/IF image tomer review.	<u>ν</u>
	body (GA-5) [NBP2-29415] - Western Blot ssue lysate using GFAP Antibody (GA-5).	
	raffin: GFAP Antibody (GA-5) [NBP2-29415] - abedded human Cerebellum stained with	





www.novusbio.com







#### **Publications**

Chen Y, Wu XL, Hu HB et al. Neuronal MeCP2 in the dentate gyrus regulates mossy fiber sprouting of mice with temporal lobe epilepsy Neurobiology of disease 2023-11-01 [PMID: 37931884] (IHC, Mouse)

Details: Dilution 1:2000

Hamilton HL, Kinscherf NA, Balmer G et al. FABP7 drives an inflammatory response in human astrocytes and is upregulated in Alzheimer's disease GeroScience 2023-09-09 [PMID: 37688656] (IHC-P, Mouse)

Johnson M, Bell A, Lauing KL et al. Advanced age in humans and mouse models of glioblastoma show decreased survival from extratumoral influence Clinical cancer research : an official journal of the American Association for Cancer Research 2023-09-19 [PMID: 37725593] (FLOW, Mouse)

Chomiak AA, Guo Y, Kopsidas CA et al. Nde1 is required for heterochromatin compaction and stability in neocortical neurons iScience 2022-06-17 [PMID: 35601919]

Pla L, K□hne BA, Guardia-Escote L et al. Protocols for the Evaluation of Neurodevelopmental Alterations in Rabbit Models In Vitro and In Vivo Frontiers in Toxicology 2022-07-22 [PMID: 35936386] (IHC)

Moffet J, Fatunla O, Freytag L et al. Recapitulating thyroid cancer histotypes through engineering embryonic stem cells bioRxiv 2023-03-15 (IHC-P, Human)

Details:

Citation using the version of this antibody.

Kim EJ, Kim JY, Kim SO et al. The oncogenic JAG1 intracellular domain is a transcriptional cofactor that acts in concert with DDX17/SMAD3/TGIF2 Cell reports 2022-11-22 [PMID: 36417870] (WB, Human)

Guo Y, Chomiak AA, Hong Y et al. Histone H2A ubiquitination resulting from Brap loss of function connects multiple aging hallmarks and accelerates neurodegeneration iScience 2022-07-15 [PMID: 35754718] (WB, Mouse)

Liu L, Killoy Km, Vargas Mr Et Al. Effects of RAGE inhibition on the progression of the disease in hSOD1G93A ALS mice Pharmacol Res Perspect 2020-08-01 [PMID: 32776498] (IHC-P, Mouse)

Killoy KM, Harlan BA, Pehar M, Vargas MR FABP7 upregulation induces a neurotoxic phenotype in astrocytes Glia 2020-07-03 [PMID: 32619303] (Mouse)

Harlan B, Killoy K, Pehar M et al. Evaluation of the NAD+ biosynthetic pathway in ALS patients and effect of modulating NAD+ levels in hSOD1-linked ALS mouse models Experimental Neurology 2020-01-01 [PMID: 32014438] (IHC-P, Mouse)

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.

More publications at http://www.novusbio.com/NBP2-29415





## Novus Biologicals USA

10730 E. Briarwood Avenue Centennial, CO 80112 USA Phone: 303.730.1950 Toll Free: 1.888.506.6887 Fax: 303.730.1966 nb-customerservice@bio-techne.com

## **Bio-Techne Canada**

21 Canmotor Ave Toronto, ON M8Z 4E6 Canada Phone: 905.827.6400 Toll Free: 855.668.8722 Fax: 905.827.6402 canada.inquires@bio-techne.com

# **Bio-Techne Ltd**

19 Barton Lane Abingdon Science Park Abingdon, OX14 3NB, United Kingdom Phone: (44) (0) 1235 529449 Free Phone: 0800 37 34 15 Fax: (44) (0) 1235 533420 info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com Technical Support: nb-technical@biotechne.com Orders: nb-customerservice@bio-techne.com General: novus@novusbio.com

#### Products Related to NBP2-29415

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-29415

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications

www.novusbio.com

