

Product Datasheet

Glutamine Synthetase Antibody

NB110-41404

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 10

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB110-41404

Updated 7/23/2024 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/NB110-41404

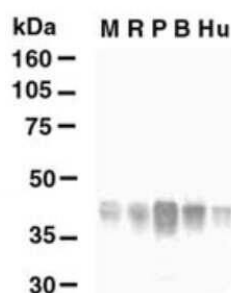


NB110-41404**Glutamine Synthetase Antibody**

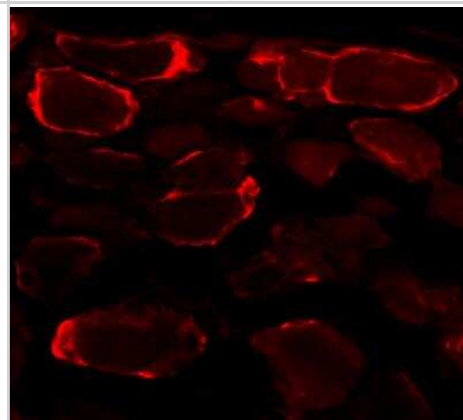
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Product Description	
Host	Rabbit
Gene ID	2752
Gene Symbol	GLUL
Species	Human, Mouse, Rat, Bovine
Immunogen	Recombinant Glutamine Synthetase.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:500 - 1:1000
Application Notes	This Glutamine Synthetase antibody is useful for Immunohistochemistry and Western Blot.

Images

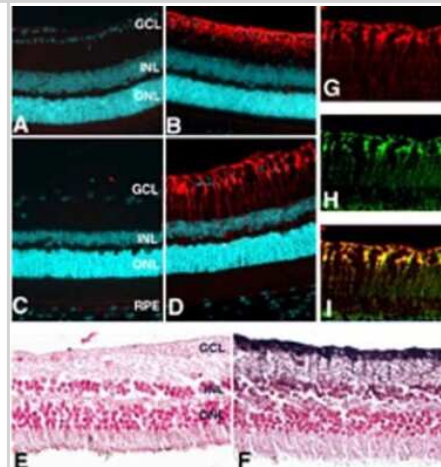
Western Blot: Glutamine Synthetase Antibody [NB110-41404] - Analysis of glutamine synthase. 40ug of lysates from mouse (Lanes M), rat (Lane R), pig (Lane P), bovine (Lane B), or human (Lane Hu) retina were probed. A 42 kDa band was identified in lysates from retinas of all species.



Immunocytochemistry/Immunofluorescence: Glutamine Synthetase Antibody [NB110-41404] - Immunofluorescence using NB110-41404. Submitted via verified customer review.



Immunohistochemistry: Glutamine Synthetase Antibody [NB110-41404] - Localization of glutamine synthase in the retina. Paraffin sections of mouse (A, B), rat (C, D, G-I), or human (E, F) retina fixed in 4% paraformaldehyde were reacted with anti-glutamine synthase (red fluorescence staining in B, D, G, I, and brown immuno-peroxidase reaction. Nuclei in IF experiments (A-D) were stained with DAPI (cyan), and with nuclear fast red in E and F. At low magnification, anti-glutamine synthase reacted with a single population of cells extending from the ganglion cell layer through the inner nuclear layer. No signal was detected in controls either pre-incubated with 100ug/ml of the immunizing peptide (A) or with pre-immune serum (C, E). This finding was confirmed by co-localization (indicated by yellow in I) of glutamine synthase (red in G) with another marker of glutamine synthase (green in H).



Publications

Michihiko Aramaki, Xuefeng Wu, Hong Liu, Ye Liu, Young-Wook Cho, Mina Song, Yulong Fu, Lily Ng, Douglas Forrest Transcriptional control of cone photoreceptor diversity by a thyroid hormone receptor Proceedings of the National Academy of Sciences of the United States of America 2022-12-01 [PMID: 36454759]

de Lemos L, Antas P, Ferreira I et al. 3D human retinal organoid model for the study of early diabetic retinopathy bioRxiv 2023-09-06 (WB, Human)

Details:

Dilution 1:1000

Cantore A, Starinieri F, Milani M et al. Spatio-temporal dynamics of the liver shapes hepatocytes heterogeneity and impacts in vivo gene transfer and editing Research Square 2023-07-28 (IHC, Mouse)

Ariano C, Costanza F, Akman M et al. TFEB inhibition induces melanoma shut-down by blocking the cell cycle and rewiring metabolism Cell death & disease 2023-05-09 [PMID: 37160873] (WB, Mouse)

Jia C, Medina V et al. Crosstalk of LKB1- and PTEN-regulated signals in liver morphogenesis and tumor development. Hepatol Commun 2017-01-04 [PMID: 29152604] (IF/IHC, Mouse)

Simon J, Nunez-Garcia M, Fernandez-Tussy P et al. Targeting Hepatic Glutaminase 1 Ameliorates Non-alcoholic Steatohepatitis by Restoring Very-Low-Density Lipoprotein Triglyceride Assembly Cell Metab. 2020-02-20 [PMID: 32084378]

Egnatchik Robert A, Brittain Evan L, Shah Amy T et al. Dysfunctional BMPR2 signaling drives an abnormal endothelial requirement for glutamine in pulmonary arterial hypertension. Pulm Circ 2017-01-01 [PMID: 28680578] (WB, Mouse)

kalman M, Oszwald E, Pocsai k et al. Disappearance of cerebrovascular laminin immunoreactivity as related to the maturation of astroglia in rat brain. Int. J. Dev. Neurosci. 2018-07-20 [PMID: 30009882] (Rat)

Richter K, Paakkola T, Mennerich D et al. USP28 Deficiency Promotes Breast and Liver Carcinogenesis as well as Tumor Angiogenesis in a HIF-independent Manner. Mol Cancer Res 2018-06-01 [PMID: 29545478] (Mouse)

Chakravarthy H, Beli E, Navitskaya S et al. Imbalances in Mobilization and Activation of Pro-Inflammatory and Vascular Reparative Bone Marrow-Derived Cells in Diabetic Retinopathy. PLoS ONE. 2016-01-14 [PMID: 26760976] (IF/IHC, Mouse)





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@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB110-41404

NBL1-11130	Glutamine Synthetase Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit 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.

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/NB110-41404

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

