

Product Datasheet

Glutamine Synthetase Antibody - BSA Free NB110-41404

Unit Size: 0.1 ml

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

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NB110-41404**Glutamine Synthetase Antibody - BSA Free**

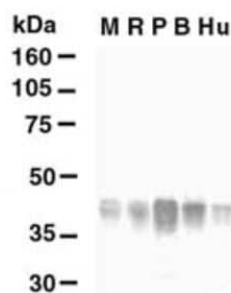
| Product Information | |
|----------------------------|--|
| Unit Size | 0.1 ml |
| Concentration | This product is unpurified. The exact concentration of antibody is not quantifiable. |
| Storage | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide |
| Isotype | IgG |
| Purity | Unpurified |
| Buffer | Whole antisera |

| Product Description | |
|----------------------------|--|
| Description | Novus Biologicals Rabbit Glutamine Synthetase Antibody - BSA Free (NB110-41404) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Glutamine Synthetase Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host | Rabbit |
| Gene ID | 2752 |
| Gene Symbol | GLUL |
| Species | Human, Mouse, Rat, Bovine |
| Immunogen | Recombinant Glutamine Synthetase. |

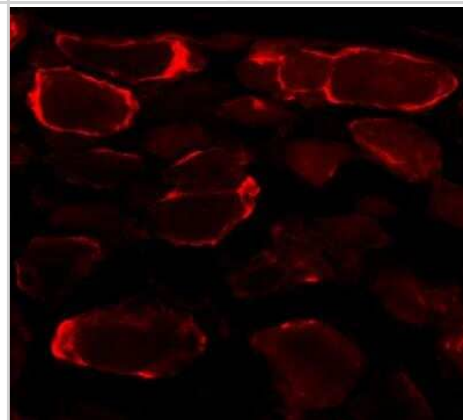
| Product Application Details | |
|------------------------------------|--|
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry |
| Recommended Dilutions | Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/ Immunofluorescence 1:500 - 1:1000 |
| Application Notes | This Glutamine Synthetase antibody is useful for Immunohistochemistry and Western Blot. |

Images

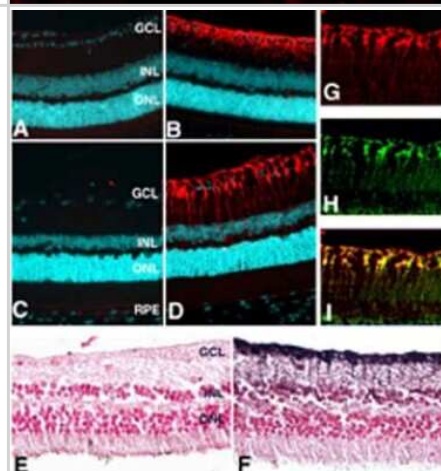
Western Blot: Glutamine Synthetase Antibody [NB110-41404] - Analysis of glutamine synthase. 40ug of lysates from mouse (Lanes M), rat (Lane R), pig (Lane P), bovine (Lane B), or human (Lane Hu) retina were probed. A 42 kDa band was identified in lysates from retinas of all species.



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

Wuensch T, Heucke N, Wizenty J et al. Hepatic CYP1A2 activity in liver tumors and the implications for preoperative volume-function analysis *American Journal of Physiology-Gastrointestinal and Liver Physiology* 2019-05-01 [PMID: 30869529] (Immunohistochemistry, Mouse)

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)





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Products Related to NB110-41404

| | |
|-------------|---|
| NBL1-11130 | Glutamine Synthetase Overexpression Lysate |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| 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.

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