

Product Datasheet

Glycine Receptor Alpha 1 Antibody - Azide and BSA Free NB300-113

Unit Size: 0.2 mg

Store at -20C. Avoid freeze-thaw cycles.

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NB300-113**Glycine Receptor Alpha 1 Antibody - Azide and BSA Free**

Product Information	
Unit Size	0.2 mg
Concentration	LYOPH mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Reconstitution Instructions	Reconstitute with 50 uL PBS to desired concentration.
Isotype	IgG
Purity	Antigen Affinity-purified
Target Molecular Weight	48 kDa

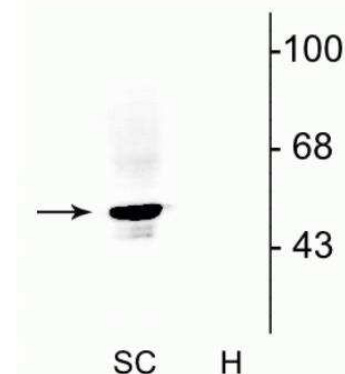
Product Description	
Description	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage).
Host	Rabbit
Gene ID	2741
Gene Symbol	GLRA1
Species	Human, Mouse, Rat
Specificity/Sensitivity	Specific for the ~48 kDa alpha1- and alpha2-subunits of the glycine receptor in Western blots of rat spinal cord and brain stem and in cell extracts. Does not recognize other glycine receptor subunits.
Immunogen	Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH. Accession # P07727

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry 1:10-1:500, Immunoprecipitation, Immunohistochemistry-Frozen 1:1000
Application Notes	Use in immunoprecipitation reported in scientific literature (PMID:31757808).

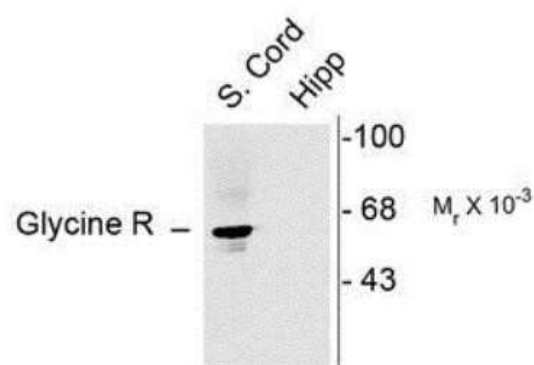


Images

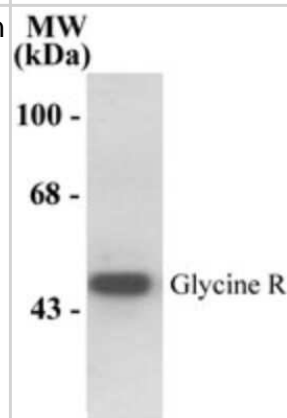
Western Blot: Glycine Receptor Alpha 1 Antibody [NB300-113] - Rat spinal cord lysate (SC) showing specific immunolabeling of the ~48 kDa alpha 1- and alpha 2-subunits of the glycine receptor. Immunolabeling was absent from a rat hippocampal lysate (H), as the glycine receptor is not expressed in the hippocampus.



Western Blot: Glycine Receptor Alpha 1 Antibody [NB300-113] - Rat spinal cord showing specific immunolabeling of the ~48k a1- and a2-subunits of the glycine receptor. The labeling was absent from a Rat hippocampal (hipp) lysate as the glycine receptor is not expressed in the hippocampus.



Western Blot: Glycine Receptor Alpha 1 Antibody [NB300-113] - Western blot of 10 ug of rat spinal cord. The antibody is specific for the ~48 kDa a1- and a2-subunits of the glycine receptor.



Publications

Zhao R, Grunke SD, Wood CA et al. Activity disruption causes degeneration of entorhinal neurons in a mouse model of Alzheimer's circuit dysfunction eLife 2022-12-05 [PMID: 36468693]

Zou G, Chen Q et al. Human Hyperekplexic Mutations in Glycine Receptors Disinhibit the Brainstem by Hijacking GABAA Receptors. iScience 2019-08-13 [PMID: 31450193] (WB, Human)

Zou G, Xia J, Han Q et al. The synthetic cannabinoid dehydroxycannabidiol restores the function of a major GABAA receptor isoform in a cell model of hyperekplexia J. Biol. Chem. 2019-11-22 [PMID: 31757808] (IP, Human)

Lu J, Fan S, Zou G, Hou Y. Involvement of glycine receptor a1 subunits in cannabinoid-induced analgesia. Neuropharmacology. 2018-02-01 [PMID: 29407767] (WB, Mouse)



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Products Related to NB300-113

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-86988PEP	Glycine Receptor Alpha 1 Recombinant Protein Antigen

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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