

Datasheet for 600-401-D65**Glycine Receptor Antibody****Overview**

Description:	Anti-Glycine Receptor (RABBIT) Antibody - 600-401-D65
Item No.:	600-401-D65
Size:	200 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Glycine Receptor Antibody detects Glycine Receptor protein. Glycine is an important inhibitory transmitter in the brainstem and spinal cord. Glycine receptors are members of the ligand-gated ion channel family (LGICs) that mediate rapid chemical neurotransmission. The binding of glycine to its receptor produces a large increase in chloride conductance, which causes membrane hyperpolarization. Glycine receptors are anchored at inhibitory chemical synapses by a cytoplasmic protein, gephyrin. The glycine receptor has been used to great advantage in the identification of the binding sites for alcohol on the LGIC family of proteins. These receptors have also been extremely useful in studies of synaptic clustering of receptors. The glycine receptor may also act in concert with an NMDAR subunit to form an excitatory receptor. Therefore, Glycine receptor antibody is ideal for investigators involved in neurological circuitry and more generally in Neuroscience.
Synonyms:	Glycine receptor subunit alpha-1, Glycine receptor 48 kDa subunit, Glycine receptor strychnine-binding subunit
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Gla1
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-Glycine Receptor Antibody was produced by repeated immunizations with synthetic peptide corresponding to amino acid residues from the N-terminal region.
Purity/Specificity:	Anti-Glycine Receptor Antibody is directed against rat Glycine Receptor protein. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Immunolabeling blocked by preadsorption of antibody with the peptide immunogen. This antibody does not recognize other glycine receptor subunits. Reactivity is expected from mouse. Cross reactivity with Glycine receptor from other species has not been determined.
Relevant Links:	• UniProtKB - P07727 • GenelD - 25674 • NCBI - NP_037265.1

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Glycine Receptor (Rabbit) antibody is tested for use in Western Blotting and IHC. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 48 kDa in size corresponding to the alpha 1 and alpha 2 subunits of the glycine receptor in Western Blots of rat spinal cord and brain stem and in cell extracts.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IHC:	1:1000
WB:	1:1000

Formulation

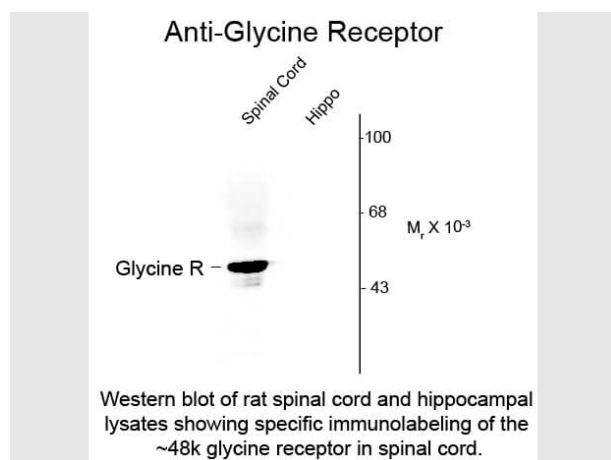
Physical State:	Lyophilized
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Reconstitution Volume:	50µL
Reconstitution Buffer:	Neutral PBS

Shipping & Handling

Shipping Condition:	Ambient
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Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-Glycine Receptor antibody.
 Lane 1: rat spinal cord. Lane 2: rat hippocampal. Load: 10 µg per lane. Primary antibody: Glycine receptor antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~48kDa α1- and α2-subunits of the glycine receptor. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.