

Datasheet for ABIN361432  
**anti-GLRA1 antibody (N-Term)**



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2 Images

## Overview

Quantity:	200 µg
Target:	GLRA1
Binding Specificity:	N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLRA1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH
Specificity:	Specific for the ~48k α1- and α2-subunits of the glycine receptor in Western blots of rat spinal cord and brain stem and in cell extracts. Immunolabeling blocked by preadsorption of antibody with the peptide immunogen. Does not recognize other glycine receptor subunits.
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Antigen Affinity Purified from Pooled Serum

## Target Details

Target:	GLRA1
Alternative Name:	GLRA1 ( <a href="#">GLRA1 Products</a> )

## Target Details

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**Background:** 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 (Schofield et al., 2003). 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 (Fischer et al., 2000). The glycine receptor has been used to great advantage in the identification of the binding sites for alcohol on the LGIC family of proteins (Beckstead et al., 2001, Mihic et al., 1997). These receptors have also been extremely useful in studies of synaptic clustering of receptors (Craig and Lichtman, 2001). The glycine receptor may also act in concert with an NMDAR subunit to form an excitatory receptor (Chatterton et al., 2002). Anti-Glycine Receptor Western blot of rat spinal cord showing specific immunolabeling of the ~48k (1- and 2-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.

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**Molecular Weight:** 48 kDa

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**Gene ID:** 25674

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**UniProt:** [P07727](#)

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**Pathways:** [Synaptic Membrane](#)

## Application Details

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**Application Notes:** Recommended Dilution: WB: 1:1000 IHC (frozen sections, unpublished observations): 1:1000  
Quality Control: Western blots performed on each lot.

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**Restrictions:** For Research Use only

## Handling

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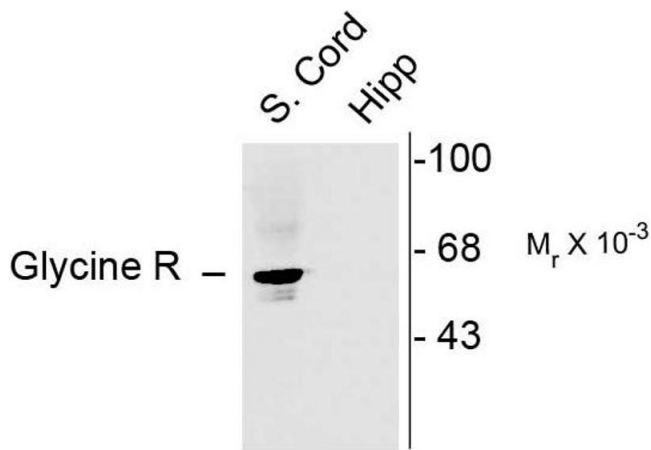
**Format:** Lyophilized

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**Buffer:** lyophilized

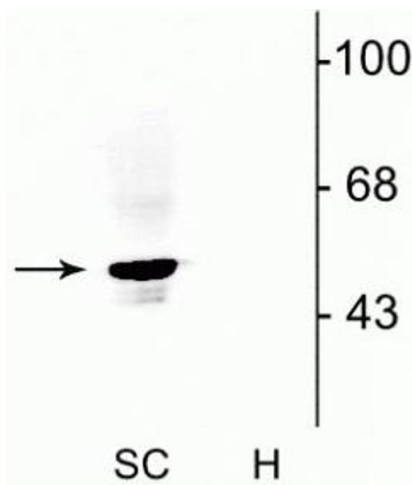
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**Storage:** -20 °C



#### Western Blotting

**Image 1.** Western blots of rat spinal cord showing specific immunolabeling of the ~48k ( $\alpha$ 1- and  $\alpha$ 2-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 Blotting

**Image 2.** Western blot of 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.