Datasheet for ABIN5688884

anti-Glycine Receptor (GRD) (N-Term) antibody

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Overview

Quantity:	200 µg
Target:	Glycine Receptor (GRD)
Binding Specificity:	N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	Glycine Receptor polyclonal antibody was raised against a peptide derived from the amino terminus of the *1 subunit of Glycine Receptor.
Purification:	Affinity Purified

Target Details

Target:	Glycine Receptor (GRD)
Alternative Name:	Glycine Receptor (GRD Products)
Background:	Gamma-amGlycine 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

Target Details

	receptors are anchored at inhibitory chemical synapses by a cytoplasmic protein, gephyrin. Gene targeting in mice showed that gephyrin is required for synaptic clustering of glycine receptors in spinal cord. 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. During postnatal motoneuron development, the glycine receptor alpha subunit changes from alpha2 (fetal) to alpha1 (adult).
Molecular Weight:	48 kDa
Gene ID:	25674
UniProt:	P07727

Application Details

Application Notes:	Glycine Receptor antibody is specific immunolabeling of the ~48k *1 and *2 subunits of the receptor in Western blots of rat spinal cord and in cell extracts containing the recombinant human glycine receptors. Immunolabeling blocked by preadsorption of antibody with the peptide immunogen derived from the amino terminus of the *1 subunit of the receptor. Applications include Dot Blots (DB) and Western Blots (WB). Rabbit anti-Glycine Receptor recognizes glycine receptor α,1 and α,2 in rat spinal cord and brain stem. When internally tested under ideal conditions the working dilutions were 1:1000 for DB and WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Storage:	-20 °C
Storage Comment:	Glycine Receptor antibody can be stored at -20°C. After reconstitution in 50 µ,l PBS, the antibody should be aliquot and stored at -20°C. This product is stable at -20°C for at least 1 year.