



# Rabbit Anti-Glycine Receptor Alpha 1/2 (N-Terminal) Polyclonal antibody (CPBT-66711RG)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Rabbit anti glycine receptor recognises an epitope within the N-terminal region (NT) of glycine receptor alpha 1 and alpha 2 subunits. Glycine receptors are members of the ligand-gated ion channel superfamily, which mediate fast inhibitory neurotransmission. The receptors are pentameric membrane proteins which form chloride channels. Binding of glycine to its receptor produces an increase in chloride conductance and membrane hyperpolarisation. Four genes encoding glycine receptor alpha subunits have been identified, together with a single beta polypeptide. Each subunit consists of a large extracellular N-terminal region, four transmembrane domains, and a large cytoplasmic domain. Western Blotting detects a band of approximately 48 kDa in rat spinal cord lysates.

<b>Specificity</b>	GLYCINE RECEPTOR ALPHA 1/2
<b>Immunogen</b>	Synthetic peptide corresponding to the N-terminal region of rat glycine receptor alpha 1 subunit.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Rat
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-Fr; WB
<b>Format</b>	Purified IgG - lyophilised
<b>Size</b>	200 µg
<b>Preservative</b>	None
<b>Storage</b>	in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may

denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Gla1 glycine receptor, alpha 1 [ Rattus norvegicus (Norway rat) ]</a>
<b>Official Symbol</b>	GLRA1
<b>Synonyms</b>	GLRA1; glycine receptor, alpha 1; GLYRA1; glycine receptor subunit alpha-1; glycine receptor 48 kDa subunit; glycine receptor, alpha 1 subunit; glycine receptor strychnine-binding subunit; GLYCINE RECEPTOR ALPHA 1/2;
<b>Entrez Gene ID</b>	<a href="#">25674</a>
<b>Protein Refseq</b>	<a href="#">NP_037265</a>
<b>UniProt ID</b>	P22771
<b>Chromosome Location</b>	10q22
<b>Pathway</b>	Ion channel transport; Ligand-gated ion channel transport; Neuroactive ligand-receptor interaction; Transmembrane transport of small molecules;
<b>Function</b>	extracellular-glycine-gated chloride channel activity; contributes_to extracellular-glycine-gated chloride channel activity; extracellular-glycine-gated ion channel activity; glycine binding; taurine binding; transmitter-gated ion channel activity;

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