10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GLRB Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51776

Product Information

Application	WB
Primary Accession	P48167
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56122

Additional Information

Gene ID	2743
Other Names	Glycine receptor subunit beta, Glycine receptor 58 kDa subunit, GLRB
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	GLRB
Function	Subunit of heteromeric glycine-gated chloride channels (PubMed: 11929858, PubMed:15302677, PubMed:16144831, PubMed:22715885, PubMed:23238346, PubMed:25445488, PubMed:34473954, PubMed:8717357). Plays an important role in the down-regulation of neuronal excitability (PubMed:11929858, PubMed:23238346). Contributes to the generation of inhibitory postsynaptic currents (PubMed:25445488).
Cellular Location	Postsynaptic cell membrane {ECO:0000250|UniProtKB:P48168}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P23415}. Synapse {ECO:0000250|UniProtKB:P48168} Cell projection, dendrite {ECO:0000250|UniProtKB:P48168}. Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P23415}. Cytoplasm. Note=Retained in the cytoplasm upon heterologous expression by itself. Coexpression with GPHN promotes expression at the cell membrane (PubMed:12684523). Coexpression with GLRA1, GLRA2 or GLRA3 promotes expression at the cell membrane {ECO:0000250|UniProtKB:P20781, ECO:0000269|PubMed:12684523}

Background

The glycine receptor is a neurotransmitter-gated ion channel. Binding of glycine to its receptor increases the chloride conductance and thus produces hyperpolarization (inhibition of neuronal firing).

References

Handford C.A.,et al.Brain Res. Mol. Brain Res. 35:211-219(1996).
Milani N.,et al.Genomics 50:341-345(1998).
Jin P.,et al.Genomics 83:566-571(2004).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.