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GLRA1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI16200

Product Information

Application	WB
Primary Accession	P23415
Other Accession	NM_000171, NP_000162
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Chicken, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52624

Additional Information

Gene ID	2741
Alias Symbol	STHE
Other Names	Glycine receptor subunit alpha-1, Glycine receptor 48 kDa subunit, Glycine receptor strychnine-binding subunit, GLRA1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-GLRA1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	GLRA1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GLRA1
Function	Subunit of heteromeric glycine-gated chloride channels (PubMed: 14551753, PubMed:23994010, PubMed:25730860, PubMed:37821459). Plays an important role in the down-regulation of neuronal excitability (PubMed:8298642, PubMed:9009272). Contributes to the generation of inhibitory postsynaptic currents (PubMed:25445488). Channel activity is potentiated by ethanol (PubMed:25973519). Potentiation of channel activity by intoxicating levels of ethanol contribute to the sedative effects of ethanol (By similarity).
Cellular Location	Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q64018}; Multi-pass

membrane protein {ECO:0000250|UniProtKB:Q64018}. Synapse {ECO:0000250|UniProtKB:Q64018} Perikaryon {ECO:0000250|UniProtKB:Q64018}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q64018}. Cell membrane; Multi-pass membrane protein

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

Grenningloh G.,et al.EMBO J. 9:771-776(1990).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Vogel N.,et al.J. Biol. Chem. 284:36128-36136(2009).
Durisic N.,et al.J. Neurosci. 32:12915-12920(2012).

Images



WB Suggested Anti-GLRA1 Antibody Titration: 0.2-1 µg/ml
Positive Control: Raji cell lysate
GLRA1 is supported by BioGPS gene expression data to be expressed in Raji

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