

GLRB Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14931a

Specification

GLRB Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P48167
Other Accession	P20781 , P48168 , Q9GJS9 , NP_001159532.1 , NP_000815.1
Reactivity Predicted	Human Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	103-132

GLRB Antibody (N-term) - Additional Information

Gene ID 2743

Other Names

Glycine receptor subunit beta, Glycine receptor 58 kDa subunit, GLRB

Target/Specificity

This GLRB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 103-132 amino acids from the N-terminal region of human GLRB.

Dilution

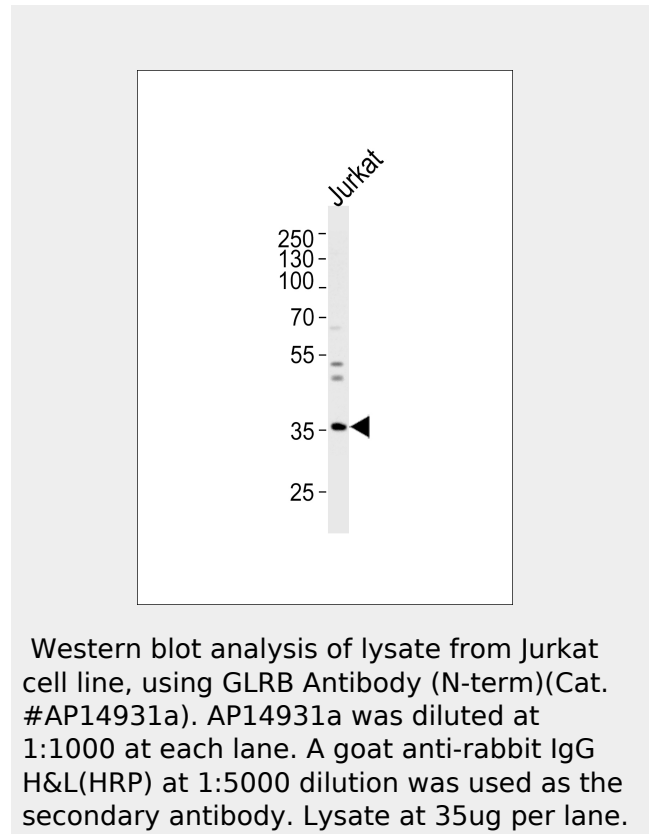
WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



GLRB Antibody (N-term) - Background

This gene encodes the beta subunit of the glycine receptor, which is a pentamer composed of alpha and beta subunits. The receptor functions as a neurotransmitter-gated ion channel, which produces hyperpolarization via increased chloride conductance due to the binding of glycine to the receptor. Mutations in this gene cause startle disease, also known as hereditary hyperekplexia or congenital stiff-person syndrome, a disease characterized by muscular rigidity. Alternative splicing results in multiple transcript variants.

GLRB Antibody (N-term) - References

Precautions

GLRB Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GLRB Antibody (N-term) - Protein Information

Name GLRB

Function

Glycine receptors are ligand-gated chloride channels. GLRB does not form ligand-gated ion channels by itself, but is part of heteromeric ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed:[8717357](http://www.uniprot.org/citations/8717357)), PubMed:[15302677](http://www.uniprot.org/citations/15302677), PubMed:[16144831](http://www.uniprot.org/citations/16144831), PubMed:[22715885](http://www.uniprot.org/citations/22715885), PubMed:[25445488](http://www.uniprot.org/citations/25445488), PubMed:[11929858](http://www.uniprot.org/citations/11929858), PubMed:[23238346](http://www.uniprot.org/citations/23238346) target="_blank">23238346). Heteropentameric channels composed of GLRB and GLRA1 are activated by lower glycine levels than homopentameric GLRA1 (PubMed:[8717357](http://www.uniprot.org/citations/8717357) target="_blank">8717357). Plays an important role in the down-regulation of neuronal excitability (PubMed:[11929858](http://www.uniprot.org/citations/11929858) target="_blank">11929858, PubMed:[23238346](http://www.uniprot.org/citations/23238346) target="_blank">23238346). Contributes to the generation of inhibitory postsynaptic currents (PubMed:[25445488](http://www.uniprot.org/citations/25445488) target="_blank">25445488).

Cellular Location

Cell junction, synapse, postsynaptic cell

Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010)
Wheeler, H.E., et al. PLoS Genet. 5 (10), E1000685 (2009) :
Ziegler, E., et al. Naunyn Schmiedebergs Arch. Pharmacol. 380(4):277-291(2009)
Tabakoff, B., et al. BMC Biol. 7, 70 (2009) :
Ahrens, J., et al. Pharmacology 83(4):217-222(2009)

membrane
{ECO:0000250|UniProtKB:P48168};
Multi-pass membrane protein
{ECO:0000250|UniProtKB:P23415}. Cell
junction, 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}

GLRB Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)