GLRB Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	GLRB, Blocking Peptide
Full Product Name	GLRB Blocking Peptide
Product Gene Name	GLRB blocking peptide
Product Synonym Names	Glycine receptor subunit beta; Glycine receptor 58 kDa subunit
Host	Synthetic
Species Reactivity	Human, Mouse, Rat, Bovine, Pig
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	GLRB peptide (MBS824331) is used for blocking the activity of GLRB antibody (MBS821805)
Molecular Weight	34,944 Da
OMIM	gene 614619
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for GLRB blocking peptide	Blocking (BL)
Application Notes for GLRB blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for GLRB blocking peptide	MBS824331 is a blocking peptide targeting GLRB. Reactive in Human, Mouse, Rat, Bovine, Pig. Host: Synthetic. The peptide is used to block Anti-GLRB Antibody reactivity.
Other Notes	Small volumes of GLRB blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GLRB. It may not necessarily be applicable to this product.

NCBI GI #	4504023
NCBI GeneID	2743
NCBI Accession #	NP_000815.1
UniProt Primary Accession #	P48167
UniProt Secondary Accession #	A8K3K2; D3DP23; F5GWE1
UniProt Related Accession #	P48167
GenBank Nucleotide #	NM_000824.4
NCBI Official Full Name	glycine receptor subunit beta isoform A
NCBI Official Synonym Full Names	glycine receptor, beta

NCBI Official Symbol	GLRB
NCBI Official Synonym Symbols	HKPX2
UniProt Protein Name	Glycine receptor subunit beta
UniProt Synonym Protein Names	Glycine receptor 58 kDa subunit
Protein Family	Glycine receptor
UniProt Gene Name	GLRB
UniProt Entry Name	GLRB_HUMAN
NCBI Protein Information	glycine receptor subunit beta; glycine receptor, beta subunit; glycine receptor 58 kDa subunit
NCBI Summary for GLRB	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. [provided by RefSeq, Oct 2009]
UniProt Comments for GLRB	GLRB: 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). Defects in GLRB are the cause of hyperekplexia type 2 (HKPX2). HKPX2 is a neurologic disorder characterized by muscular rigidity of central nervous system origin, particularly in the neonatal period, and by an exaggerated startle response to unexpected acoustic or tactile2 stimuli. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Glycine receptor (TC 1.A.9.3) subfamily. GLRB sub- subfamily. Protein type: Membrane protein, integral; Transporter, ion channel; Channel, ligand-gated; Transporter; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 4q31.3 Cellular Component: postsynaptic membrane; integral to plasma membrane; plasma membrane; cell junction Molecular Function: protein binding; extracellular-glycine-gated chloride channel activity; extracellular-glycine-gated ion channel activity; glycine binding; drug binding Biological Process: nervous system development; startle response; synaptic transmission, glycinergic; protein heterooligomerization; righting reflex; acrosome reaction; adult walking behavior; synaptic transmission; regulation of membrane potential; visual perception; neuropeptide signaling pathway; ion transport; transmembrane transport Disease: Hyperekplexia 2
Research Articles on GLRB	**1.** We report novel GLRB mutations in hyperekplexia
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