

GLRA3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP13195b**Specification**

GLRA3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O75311](#)**GLRA3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8001**Other Names**

Glycine receptor subunit alpha-3, GLRA3

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13195b was selected from the C-term region of GLRA3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GLRA3 Antibody (C-term) Blocking Peptide - Protein Information**Name** GLRA3**Function**

Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed:9677400, PubMed:26416729). Channel characteristics depend on the subunit composition; heteropentameric channels display faster channel closure (By similarity). Plays an important role in the down-regulation of neuronal excitability (By similarity). Contributes to the generation of inhibitory postsynaptic currents (By similarity). Contributes to increased pain perception in response to increased prostaglandin E2 levels (By similarity). Plays a role in cellular responses to ethanol (By similarity).

Cellular Location

Postsynaptic cell membrane {ECO:0000250|UniProtKB:P24524}; Multi-pass membrane protein. Perikaryon {ECO:0000250|UniProtKB:P24524}. Cell projection, dendrite

{ECO:0000250|UniProtKB:P24524}. Synapse {ECO:0000250|UniProtKB:P24524}. Cell membrane; Multi-pass membrane protein. Note=Partially colocalizes with GPHN that is known to mediate receptor clustering at postsynaptic membranes. {ECO:0000250|UniProtKB:P24524}

Tissue Location

Widely distributed throughout the central nervous system.

GLRA3 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GLRA3 Antibody (C-term) Blocking Peptide - Images**GLRA3 Antibody (C-term) Blocking Peptide - Background**

The GLRA3 gene encodes the alpha-3 subunit of the neuronal glycine receptor, a ligand-gated chloride channel composed of ligand-binding alpha and structural beta polypeptides (Kingsmore et al., 1994 [PubMed 7894176]).

GLRA3 Antibody (C-term) Blocking Peptide - References

Melzer, N., et al. J. Biol. Chem. 285(6):3730-3739(2010) Breitingner, H.G., et al. J. Biol. Chem. 284(42):28624-28633(2009) Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B(6), 808-816 (2009) :Breitingner, H.G., et al. J. Neurochem. 83(1):30-36(2002) Sobetzko, D., et al. Am. J. Med. Genet. 105(6):534-538(2001)