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GABRR1 Antibody(N-term) Blocking peptide

Synthetic peptide
Catalog # BP19525a

Specification

GABRR1 Antibody(N-term) Blocking peptide - Product Information

Primary Accession P24046

GABRR1 Antibody(N-term) Blocking peptide - Additional Information

Gene ID 2569

Other Names
Gamma-aminobutyric acid receptor subunit rho-1, GABA(A) receptor subunit rho-1, GABA(C) receptor, GABRR1

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.

GABRR1 Antibody(N-term) Blocking peptide - Protein Information

Name GABRR1 (HGNC:4090)

Function
Rho subunit of the pentameric ligand-gated chloride channels responsible for mediating the effects of gamma-aminobutyric acid (GABA), the major inhibitory neurotransmitter in the brain (PubMed:37659407). Rho-containing GABA-gated chloride channels are a subclass of GABA(A) receptors (GABAARs) entirely composed of rho subunits, where GABA molecules bind at the rho intersubunit interfaces (PubMed:37659407). When activated by GABA, rho-GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed:37659407). Rho-1 subunits are primarily expressed in retina where rho-1-containing GABAARs may play a role in retinal neurotransmission (PubMed:1849271). Rho-1 GABAARs are also involved in neuronal tonic (extrasynaptic) and phasic (synaptic) transmission in the Purkinje neurons of the cerebellum (By similarity). Rho-1 GABAARs may also contribute to the regulation of glial development in the cerebellum by controlling extrasynaptic transmission (By similarity).

Cellular Location

Postsynaptic cell membrane {ECO:0000250|UniProtKB:P56475}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

Tissue Location
Highly expressed in the retina (PubMed:1849271). Expressed in a lesser extent in brain, lung and thymus (PubMed:1849271).

GABRR1 Antibody(N-term) Blocking peptide - Protocols

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

- Blocking Peptides

GABRR1 Antibody(N-term) Blocking peptide - Images

GABRR1 Antibody(N-term) Blocking peptide - Background

GABA is the major inhibitory neurotransmitter in themammalian brain where it acts at GABA receptors, which areligand-gated chloride channels. GABRR1 is a member of the rhosubunit family.

GABRR1 Antibody(N-term) Blocking peptide - References

Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :Green, E.K., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. (2010) In press :Reyes-Ruiz, J.M., et al. Biochim. Biophys. Acta 1798(5):1002-1007(2010)Xuei, X., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (2), 418-427 (2010) :Kang, J.Q., et al. Trends Mol Med 15(9):430-438(2009)