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GABRG2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10189c

Specification

GABRG2 Antibody (Center) Blocking peptide - Product Information

Primary Accession	P18507
Other Accession	NP_000807.2

GABRG2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 2566

Other Names
Gamma-aminobutyric acid receptor subunit gamma-2, GABA(A) receptor subunit gamma-2, GABRG2

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.

GABRG2 Antibody (Center) Blocking peptide - Protein Information

Name GABRG2

Function
Ligand-gated chloride channel which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain (PubMed:2538761, PubMed:29950725). Plays an important role in the formation of functional inhibitory GABAergic synapses in addition to mediating synaptic inhibition as a GABA-gated ion channel (PubMed:23909897, PubMed:25489750, PubMed:27864268). The gamma2 subunit is necessary but not sufficient for a rapid formation of active synaptic contacts and the synaptogenic effect of this subunit is influenced by the type of alpha and beta subunits present in the receptor pentamer (By similarity). The alpha1/beta2/gamma2 receptor and the alpha1/beta3/gamma2 receptor exhibit synaptogenic activity (PubMed:23909897, PubMed:25489750). The alpha2/beta2/gamma2 receptor exhibits synatogenic activity whereas the alpha2/beta3/gamma2

receptor shows very little or no synaptogenic activity (By similarity). Functions also as histamine receptor and mediates cellular responses to histamine (By similarity).

Cellular Location
Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250|UniProtKB:P22723}. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P18508}

GABRG2 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

GABRG2 Antibody (Center) Blocking peptide - Images

GABRG2 Antibody (Center) Blocking peptide - Background

This gene encodes a gamma-aminobutyric acid (GABA)receptor. GABA is the major inhibitory neurotransmitter in themammlian brain, where it acts at GABA-A receptors, which areligand-gated chloride channels. GABA-A receptors are pentameric,consisting of proteins from several subunit classes: alpha, beta,gamma, delta and rho. Mutations in this gene have been associatedwith epilepsy and febrile seizures. Multiple transcript variantsencoding different isoforms have been identified for this gene.

GABRG2 Antibody (Center) Blocking peptide - References

Green, E.K., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (7), 1347-1349 (2010) :Jansen, L.A., et al. Epilepsia 51(8):1456-1467(2010)Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) :Shi, X., et al. J. Hum. Genet. 55(6):375-378(2010)Kumari, R., et al. Seizure 19(4):237-241(2010)