

**GABRB3 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP2789c****Specification**

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**GABRB3 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P28472](#)**GABRB3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2562**Other Names**

Gamma-aminobutyric acid receptor subunit beta-3, GABA(A) receptor subunit beta-3, GABRB3

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP2789c](/products/AP2789c) was selected from the Center region of human GABRB3. 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.

**GABRB3 Antibody (Center) Blocking Peptide - Protein Information****Name** GABRB3**Function**

Ligand-gated chloride channel which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain (PubMed: [18514161](http://www.uniprot.org/citations/18514161), PubMed: [22303015](http://www.uniprot.org/citations/22303015), PubMed: [26950270](http://www.uniprot.org/citations/26950270), PubMed: [22243422](http://www.uniprot.org/citations/22243422), PubMed: [24909990](http://www.uniprot.org/citations/24909990)). 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: [25489750](http://www.uniprot.org/citations/25489750)). 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/beta3/gamma2 receptor exhibits synaptogenic activity (PubMed:<a href="http://www.uniprot.org/citations/25489750" target="\_blank">25489750</a>). 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 (PubMed:<a href="http://www.uniprot.org/citations/18281286" target="\_blank">18281286</a>). Plays an important role in somatosensation and in the production of antinociception (By similarity).

#### **Cellular Location**

Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P63079}

### **GABRB3 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **GABRB3 Antibody (Center) Blocking Peptide - Images**

### **GABRB3 Antibody (Center) Blocking Peptide - Background**

GABRB3 is a member of the ligand-gated ionic channel family. The protein is one of at least 13 distinct subunits of a multisubunit chloride channel that serves as the receptor for gamma-aminobutyric acid, the major inhibitory transmitter of the nervous system. The gene encoding this protein is located on the long arm of chromosome 15 in a cluster with two genes encoding related subunits of the family. Mutations in this gene may be associated with the pathogenesis of Angelman syndrome, Prader-Willi syndrome, and autism.

### **GABRB3 Antibody (Center) Blocking Peptide - References**

Vieira,A.R.,Am. J. Med. Genet. A 146A (21), 2828-2830 (2008) Russek,S.J., Genomics 23 (3), 528-533 (1994) Saitoh,S., Lancet 339 (8789), 366-367 (1992)