

GABRG2 (aa400-410) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3184a**Specification**

GABRG2 (aa400-410) Antibody (internal region) - Product Information

Application	WB
Primary Accession	P18507
Other Accession	NP_944494.1 , NP_000807.2 , NP_944493.2 , 2566 , 14406 (mouse) , 29709 (rat)
Reactivity	Mouse, Rat
Predicted	Human, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	55186

GABRG2 (aa400-410) Antibody (internal region) - Additional Information**Gene ID** 2566**Other Names**

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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GABRG2 (aa400-410) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

GABRG2 (aa400-410) Antibody (internal region) - 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 synaptogenic 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 (aa400-410) Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GABRG2 (aa400-410) Antibody (internal region) - Images



AF3184a (2 µg/ml) staining of Mouse Brain lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

GABRG2 (aa400-410) Antibody (internal region) - Background

This antibody is expected to recognize all reported isoforms: NP_944494.1; NP_000807.2; NP_944493.2. Note the aa numbers used in the name are from NP_944494.1.

GABRG2 (aa400-410) Antibody (internal region) - References

Genetic susceptibility to febrile seizures: Case-control association studies. Kira R, Ishizaki Y, Torisu H, Sanefuji M, Takemoto M, Sakamoto K, Matsumoto S, Yamaguchi Y, Yukaya N, Sakai Y, Gondo K, Hara T, Brain & development 2009 Oct : . PMID: 19854014