

GABRB3 Antibody (clone S87-25)
Mouse Monoclonal Antibody
Catalog # ALS16526**Specification**

GABRB3 Antibody (clone S87-25) - Product Information

Application	IHC, IHC-P
Primary Accession	P28472
Other Accession	2562
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	54116

GABRB3 Antibody (clone S87-25) - Additional Information**Gene ID** 2562**Other Names**

GABRB3, Cleft palate 1, Cp1, GABAA receptor beta-3 subunit, GABA(A) receptor, beta 3, ECA5, GABA A receptor beta 3

Target/Specificity

~55 kDa. No cross-reactivity against GABA-A-R-Beta 2 or -Beta 1.

Reconstitution & Storage

PBS pH7.4, 50% glycerol and 0.09% sodium azide. Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

GABRB3 Antibody (clone S87-25) is for research use only and not for use in diagnostic or therapeutic procedures.

GABRB3 Antibody (clone S87-25) - 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, PubMed:22303015, PubMed:26950270, PubMed:22243422, PubMed: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). 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:25489750). 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:18281286). Plays an important role in somatosensation and in the production of antinociception (By similarity).

Cellular Location

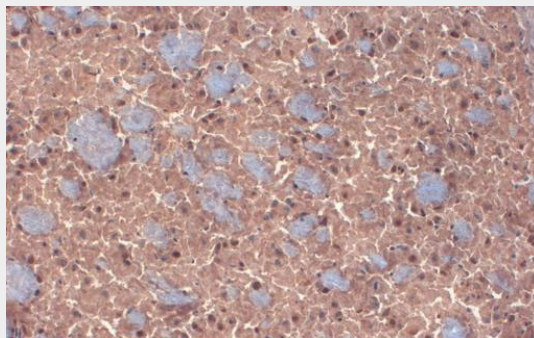
Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P63079}

GABRB3 Antibody (clone S87-25) - Protocols

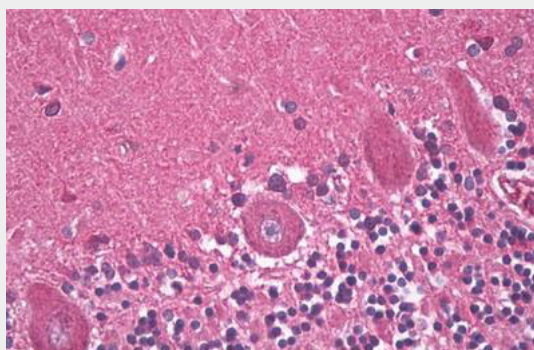
Provided below are standard protocols that you may find useful for product applications.

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

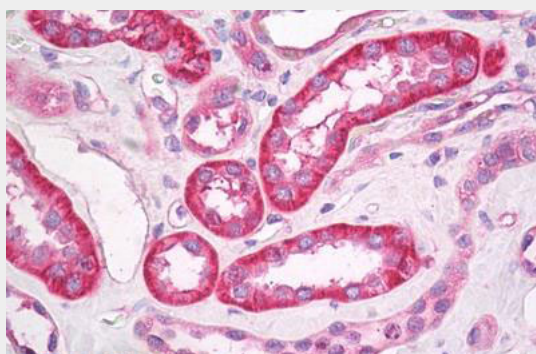
GABRB3 Antibody (clone S87-25) - Images



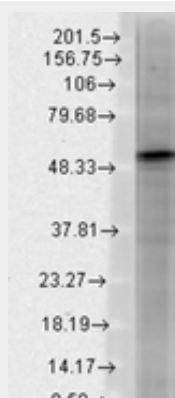
IHC analysis of GABA(A)R Beta 3 in frozen sections of mouse brain extract using GABRB3 antibody.



Anti-GABRB3 antibody IHC staining of human brain, cerebellum, purkinje.



Anti-GABRB3 antibody IHC staining of human kidney.



Western blot analysis of GABA(A)R Beta3 in rat brain membrane lysates using a 1:1000 dilution of...

GABRB3 Antibody (clone S87-25) - Background

Component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the vertebrate brain. Functions also as histamine receptor and mediates cellular responses to histamine. Functions as receptor for diazepam and various anesthetics, such as pentobarbital; these are bound at a separate allosteric effector binding site. Functions as ligand-gated chloride channel.

GABRB3 Antibody (clone S87-25) - References

- Wagstaff J., et al. Genomics 11:1071-1078(1991).
- Ota T., et al. Nat. Genet. 36:40-45(2004).
- Zody M.C., et al. Nature 440:671-675(2006).
- Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
- Kirkness E.F., et al. J. Biol. Chem. 268:4420-4428(1993).