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GABRB3 Antibody (Internal)

Goat Polyclonal Antibody
Catalog # ALS12868

Specification

GABRB3 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	P28472
Reactivity	**Human, Mouse, Rat, Hamster, Monkey, Horse, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**54kDa KDa**

GABRB3 Antibody (Internal) - Additional Information

Gene ID 2562

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

Target/Specificity
Human GABRB3. This antibody is expected to recognize both reported isoforms (NP_000805.1, NP_068712.1).

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
GABRB3 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

GABRB3 Antibody (Internal) - 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).

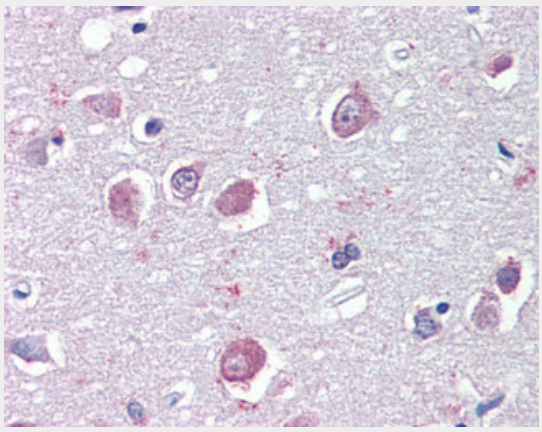
Cellular Location
Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P63079}

GABRB3 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GABRB3 Antibody (Internal) - Images



Anti-GABRB3 antibody IHC of human brain, cortex.

GABRB3 Antibody (Internal) - 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 diazepines and various anesthetics, such as pentobarbital; these are bound at a separate allosteric effector binding site. Functions as ligand- gated chloride channel.

GABRB3 Antibody (Internal) - References

Wagstaff J.,et al.Genomics 11:1071-1078(1991).

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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).