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Anti-GABRB2 Antibody
Rabbit polyclonal antibody to GABRB2
Catalog # AP60868

Specification

Anti-GABRB2 Antibody - Product Information

Application	**WB, IH**
Primary Accession	P47870
Other Accession	P63137
Reactivity	**Human, Mouse, Rat, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**59150**

Anti-GABRB2 Antibody - Additional Information

Gene ID 2561

Other Names
Gamma-aminobutyric acid receptor subunit beta-2; GABA(A) receptor subunit beta-2

Target/Specificity
Recognizes endogenous levels of GABRB2 protein.

Dilution
WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100)
IH~~WB (1/500 - 1/1000), IH (1/50 - 1/100)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-GABRB2 Antibody - Protein Information

Name GABRB2

Function
Ligand-gated chloride channel which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain (PubMed:8264558, PubMed:19763268, PubMed:27789573, 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:<a

href="http://www.uniprot.org/citations/23909897" target="_blank">23909897, 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/beta2/gamma2 receptor and the alpha2/beta2/gamma2 receptor exhibit synaptogenic activity (PubMed:23909897, PubMed:25489750). Functions also as histamine receptor and mediates cellular responses to histamine (By similarity).

Cellular Location
Postsynaptic cell membrane {ECO:0000250|UniProtKB:P63137}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P63138}

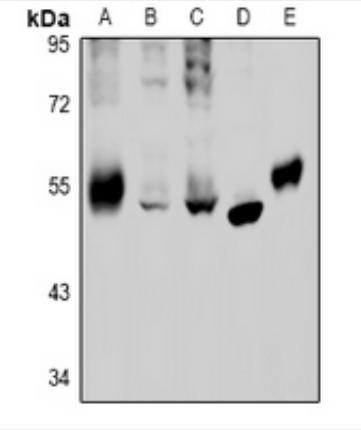
Tissue Location
Isoform 1 and isoform 2 show reduced expression in schizophrenic brain. Isoform 3 shows increased expression in schizophrenic and bipolar disorder brains while isoform 4 shows reduced expression.

Anti-GABRB2 Antibody - 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

Anti-GABRB2 Antibody - Images



Western blot analysis of GABRB2 expression in C6 (A), U87MG (B), HEK293T (C), HCC827 (D), rat lung (E) whole cell lysates.

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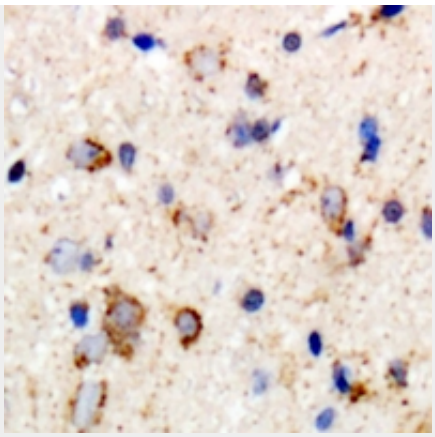

Immunohistochemical analysis of GABRB2 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Anti-GABRB2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human GABRB2. The exact sequence is proprietary.