SunLong Biotech Co.,LTD
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www.sunlongbiotech.com

Rabbit Anti-GABRB2 antibody

SL12065R

Product Name	GABRB2
Chinese Name	G 氨基丁酸受体 β2/GABAA Rβ2 抗体
Alias	GABA A Receptor beta 2; GABA; GABA(A) receptor subunit beta-2; GABRB2; Gamma aminobutyric acid (GABA) A receptor, beta 2; Gamma aminobutyric acid A receptor beta 2; Gamma-aminobutyric acid receptor subunit beta-2; Gamma-aminobutyric-acid receptor subunit beta-2; GBRB2_HUMAN,
Research Area	Neurobiology The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, Rat, (predicted: Human, Chicken, Dog, Pig, Cow, Horse, Rabbit, Sheep,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	56kDa
Detection molecular weight	54-59 kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human GABRB2/GABA A Receptor beta 2: 251-350/512 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

Storage Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed PubMed

The gamma-aminobutyric acid (GABA) A receptor is a multisubunit chloride channel that mediates the fastest inhibitory synaptic transmission in the central nervous system. This gene encodes GABA A receptor, beta 2 subunit. It is mapped to chromosome 5q34 in a cluster comprised of genes encoding alpha 1 and gamma 2 subunits of the GABA A receptor. Alternative splicing of this gene generates 2 transcript variants, differing by a 114 bp insertion. [provided by RefSeq, Jul 2008]

Product Detail

Function:
GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel.

Subunit:
Generally pentameric. There are five types of GABA(A) receptor chains: alpha, beta, gamma, delta, and rho. Binds UBQLN1. Interacts with KCTD8, KCTD12 and KCTD16; this interaction determines the pharmacology and kinetics of the receptor response, the KCTD proteins markedly accelerating the GABA-B response, although to different extents (By similarity).

Subcellular Location:
Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.

Tissue Specificity:
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.

Similarity:
Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRB2 sub-subfamily.

SWISS:
P47870

Gene ID:
2561

Database links:

Entrez Gene: 2561 Human

Entrez Gene: 14401 Mouse

Entrez Gene: 25451 Rat

Omim: 600232 Human

SwissProt: P47870 Human

SwissProt: P63137 Mouse

SwissProt: P63138 Rat

Unigene: 303527 Human

Unigene: 338723 Mouse

Unigene: 471870 Mouse

Unigene: 207158 Rat

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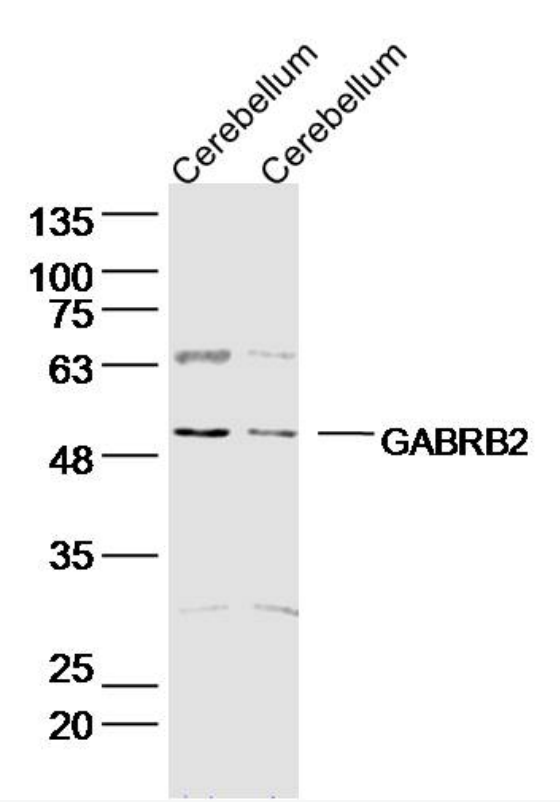
Product Picture



Sample:

Cerebellum (rat) Lysate at 40 ug

Cerebellum (mouse) Lysate at 40 ug

Primary: Anti- GABRB2 (SL12065R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 56kD

Observed band size: 56 kD

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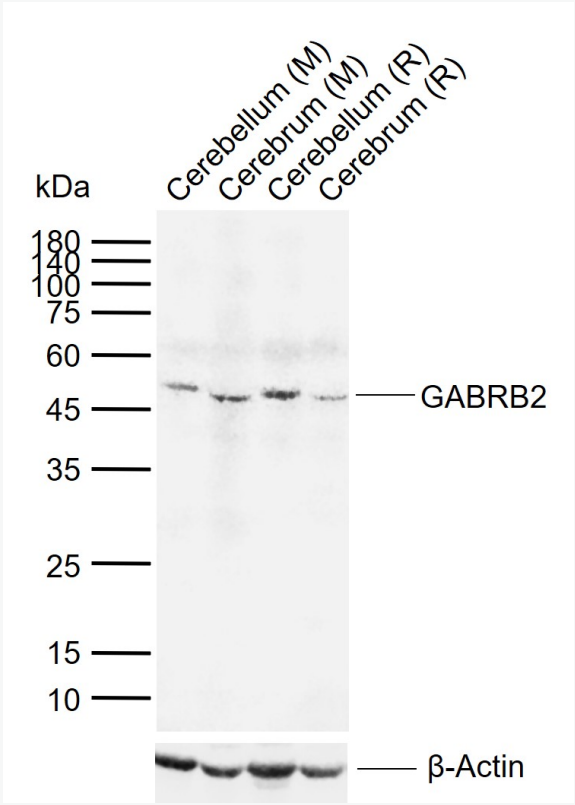

Sample:

Lane 1: Mouse Cerebellum tissue lysates

Lane 2: Mouse Cerebrum tissue lysates

Lane 3: Rat Cerebellum tissue lysates

Lane 4: Rat Cerebrum tissue lysates

Primary: Anti-GABRB2 (SL12065R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 56 kDa

Observed band size: 50 kDa

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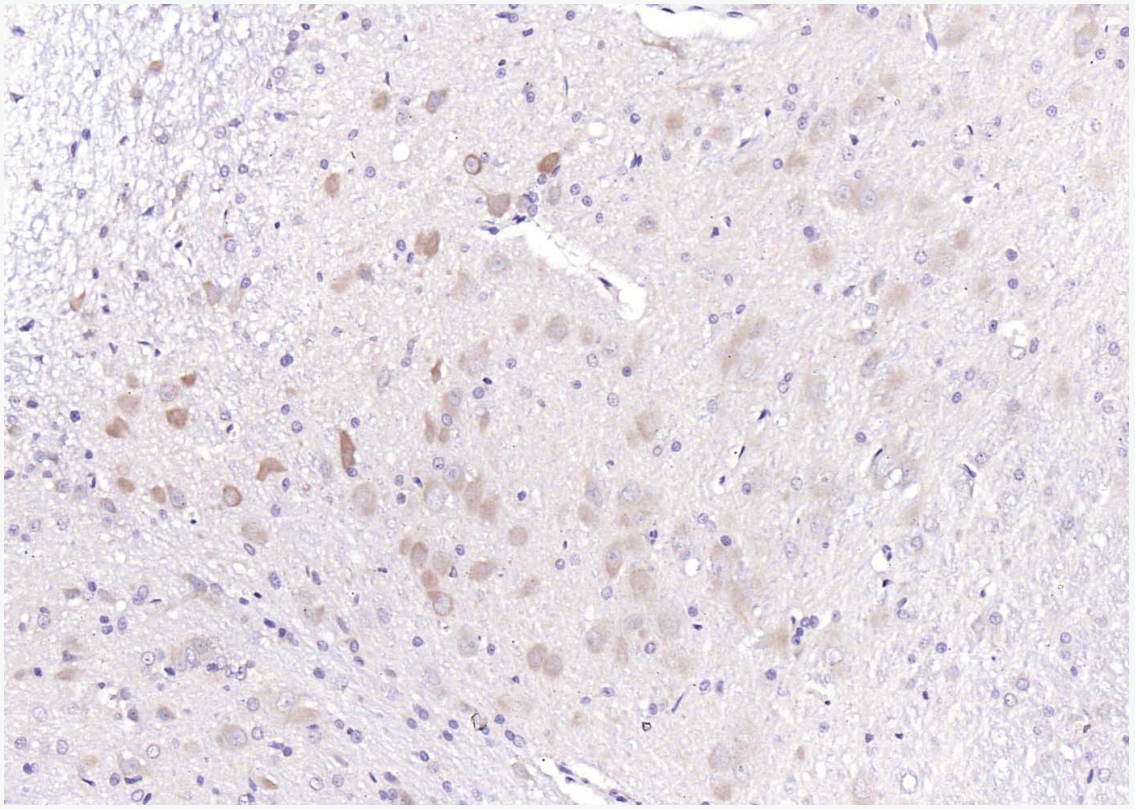

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GABRB2) Polyclonal Antibody, Unconjugated (SL12065R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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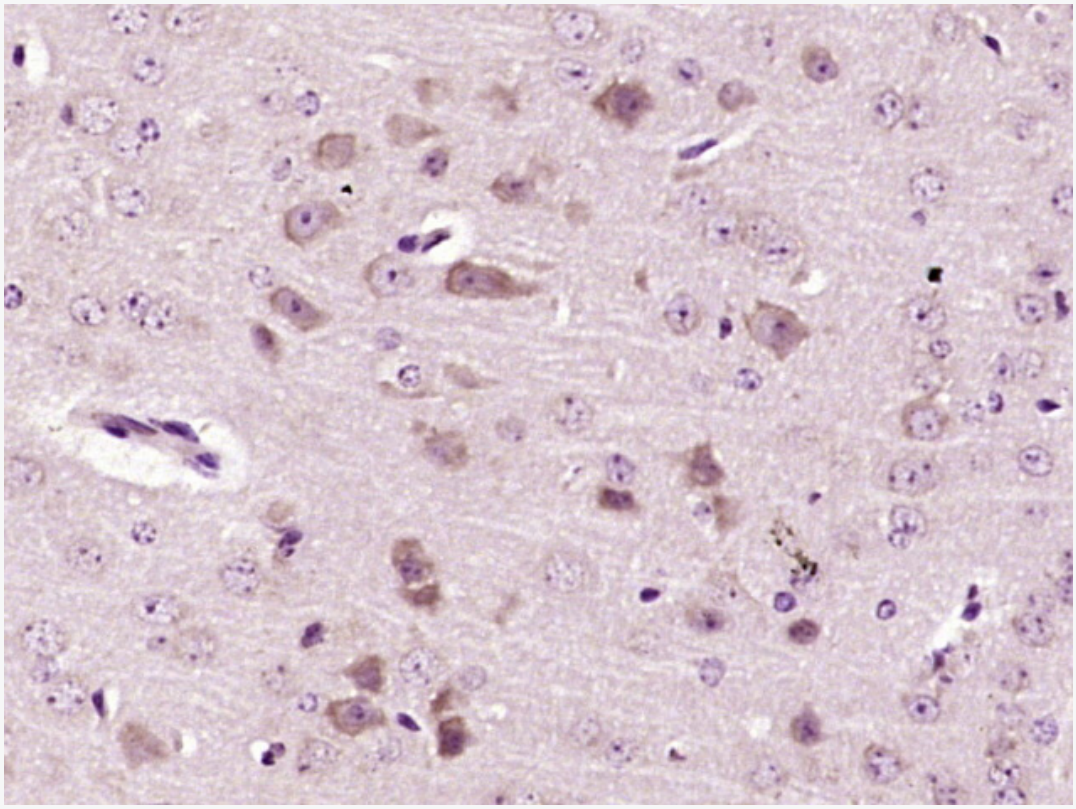

Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GABRB2) Polyclonal Antibody, Unconjugated (SL12065R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.