



Rabbit Anti-GABRA2 antibody

SL12061R

Product Name:	GABRA2
Chinese Name:	G氨基丁酸A型受体 α 2/GABAA R α 2抗体
Alias:	GABA A Receptor α 2; GABA A Receptor alpha 2; GABA A receptor subunit alpha 2; GABA; GABA(A) receptor subunit alpha 2; GABA(A) receptor subunit alpha-2; GABRA2; GABRA 2; GABRA2; GABRA2 protein; Gamma aminobutyric acid (GABA) A receptor alpha 2; Gamma aminobutyric acid A receptor alpha 2; Gamma aminobutyric acid receptor alpha 2 subunit; Gamma aminobutyric acid receptor subunit alpha 2; Gamma-aminobutyric acid receptor subunit alpha-2; GBRA2 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1 μ g/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	48kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human GABRA2/GABA A Receptor alpha 2:185-280/451<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at

GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. At least 16 distinct subunits of GABA-A receptors have been identified. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

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:

Binds UBQLN1 (By similarity). Generally pentameric. There are five types of GABA(A) receptor chains: alpha, beta, gamma, delta, and rho.

Subcellular Location:

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

Similarity:

Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRA2 sub-subfamily.

SWISS:

P47869

Gene ID:

2555

Database links:

[Entrez Gene: 2555](#) Human

[Entrez Gene: 14395](#) Mouse

[Entrez Gene: 289606](#) Rat

[Entrez Gene: 282236](#) Cow

[Omim: 137140](#) Human

[SwissProt: P10063](#) Cow

[SwissProt: P47869](#) Human

[SwissProt: P26048](#) Mouse

[SwissProt: P23576](#) Rat

[Unigene: 116250](#) Human

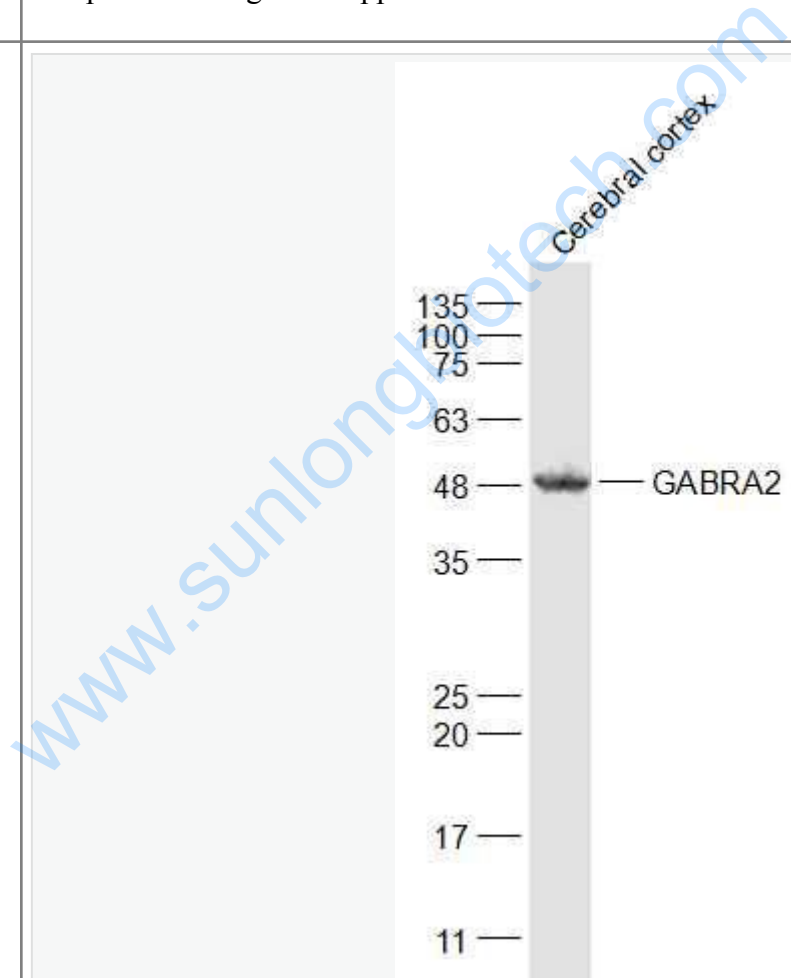
[Unigene: 5304](#) Mouse

[Unigene: 48180](#) Rat

Important Note:

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

Picture:



Sample:

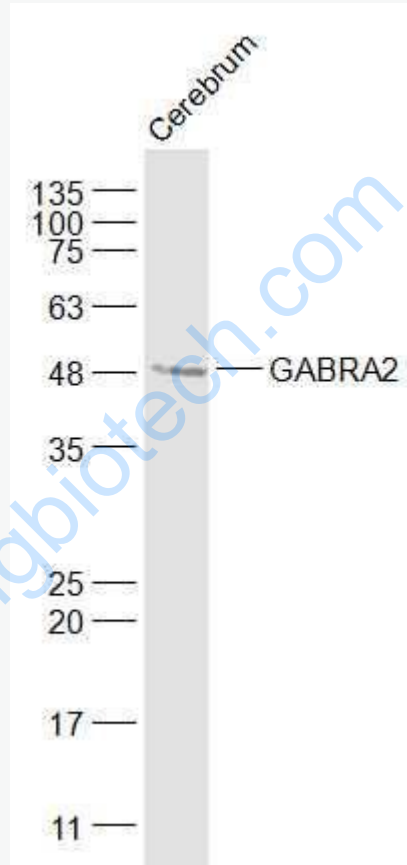
Cerebral cortex(Rat) Lysate at 40 ug

Primary: Anti-GABRA2 (SL12061R) at 1/1000 dilution

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

Predicted band size: 48 kD

Observed band size: 48 kD



Sample:

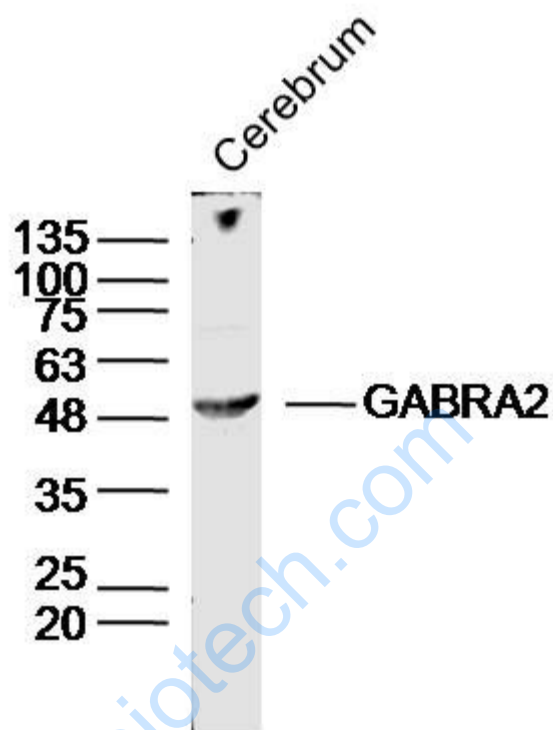
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-GABRA2 (SL12061R) at 1/1000 dilution

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

Predicted band size: 48 kD

Observed band size: 48 kD



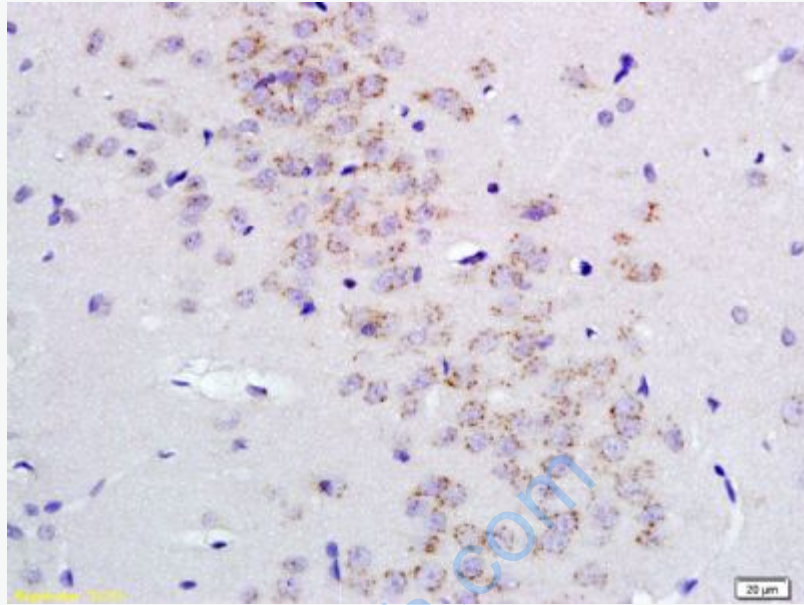
Sample: Cerebrum (mouse) Lysate at 40 ug

Primary: Anti- GABRA2(SL12061R) at 1/300 dilution

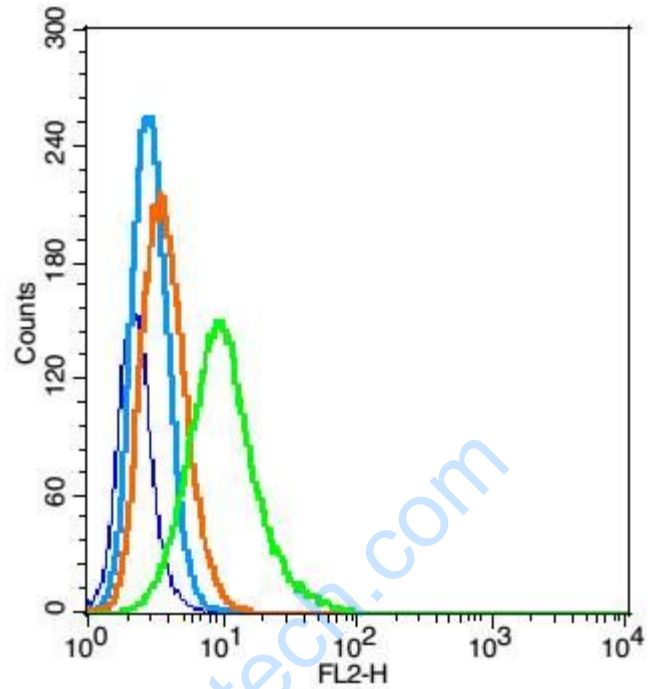
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 50 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-GABRA2 Polyclonal Antibody, Unconjugated(SL12061R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control(blue):RSC96 (fixed with 2% paraformaldehyde (10 min)).

Primary Antibody:Rabbit Anti- GABRA2 antibody(SL12061R), Dilution: 1 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions);

Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.