

## Rabbit Anti-GABRA2 antibody

SL12061R

**Product Name** GABRA2

**Chinese Name** G 氨基丁酸 A 型受体  $\alpha 2$ /GABAA R $\alpha 2$  抗体

**Alias**

GABA A Receptor  $\alpha 2$ ; 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.

**Research Area**

Neurobiology The cell membrane 受体

**Immunogen Species**

Rabbit

**Clonality**

Polyclonal

**React Species**

Mouse, Rat, (predicted: Human, Dog, Pig, Cow, Horse, Rabbit, )

**Applications**

WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 $\mu$ g/Test  
(Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight**

48kDa

**Cellular localization**

The cell membrane

**Form**

Liquid

**Concentration**

1mg/ml

**immunogen**

KLH conjugated synthetic peptide derived from human GABRA2: 185-280/451  
<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°C. Store at -20 °C 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](#)

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.

**Product Detail**

**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

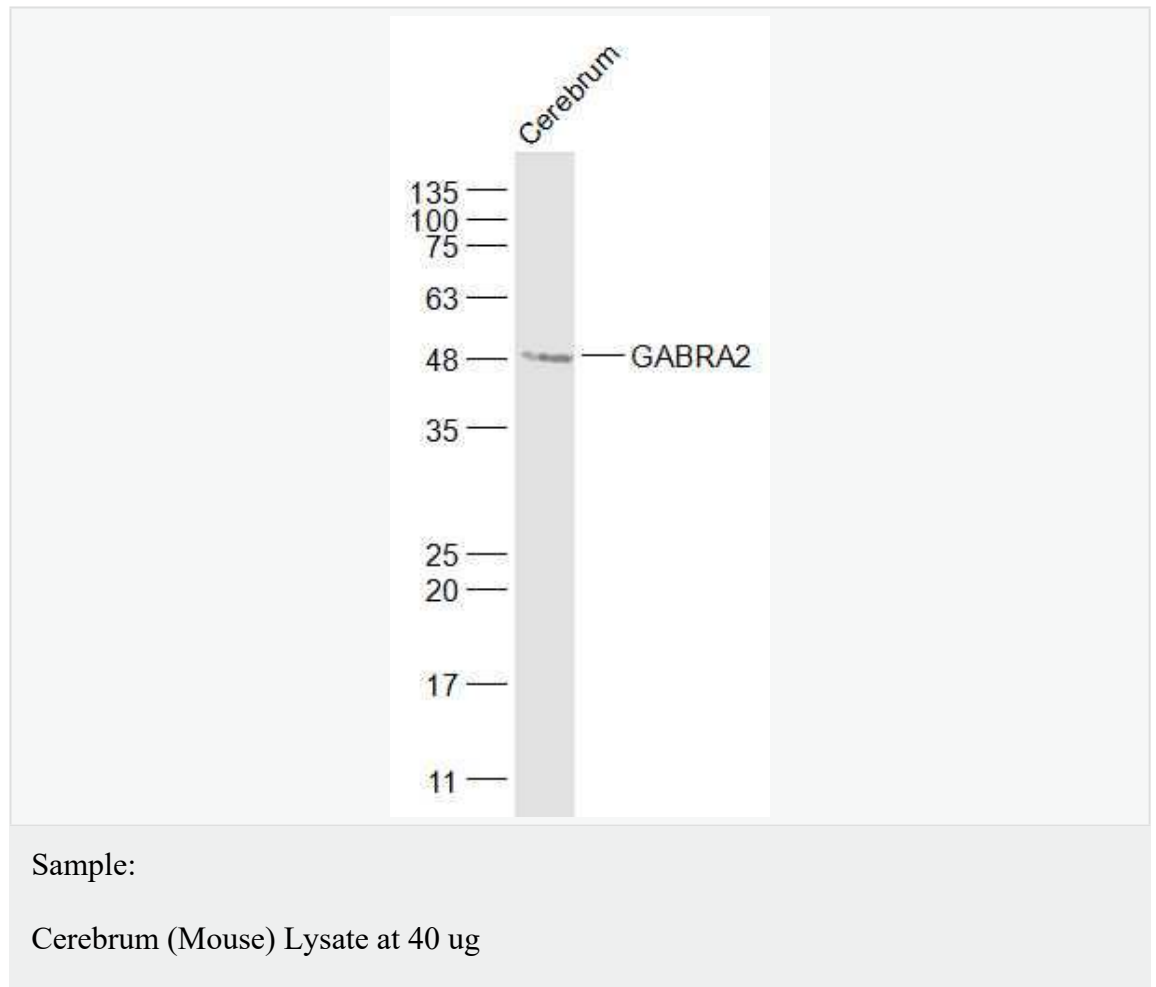
[SwissProt: P23576](#) Rat

[Unigene: 116250](#) Human

[Unigene: 5304](#) Mouse

[Unigene: 48180](#) Rat

**Product  
Picture**

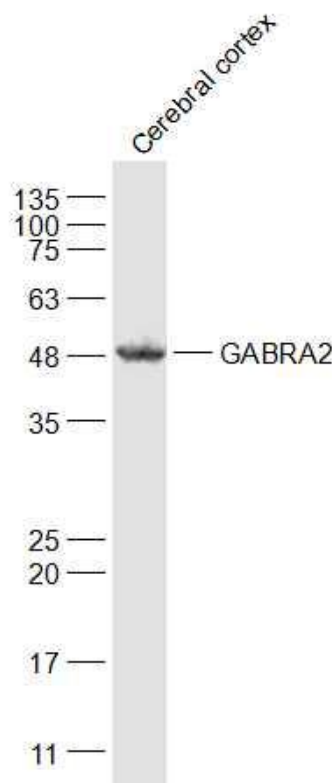


Primary: Anti-GABRA2 (SL12061R) at 1/1000 dilution

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

Predicted band size: 48 kD

Observed band size: 48 kD



Sample:

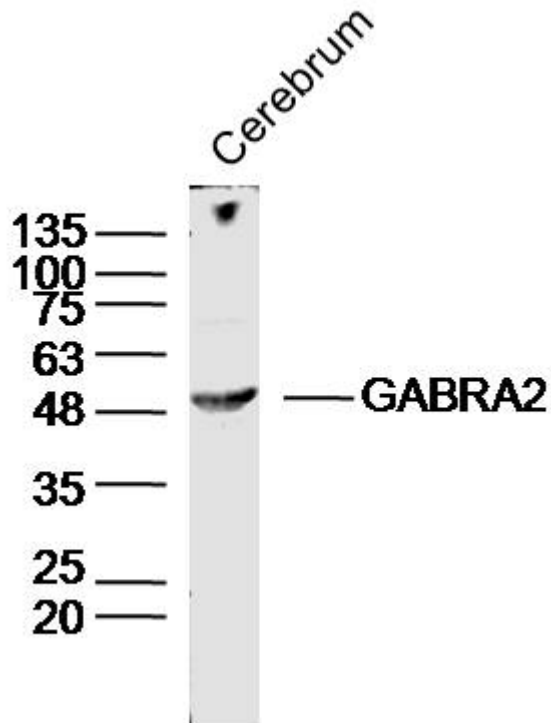
Cerebral cortex(Rat) Lysate at 40 ug

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



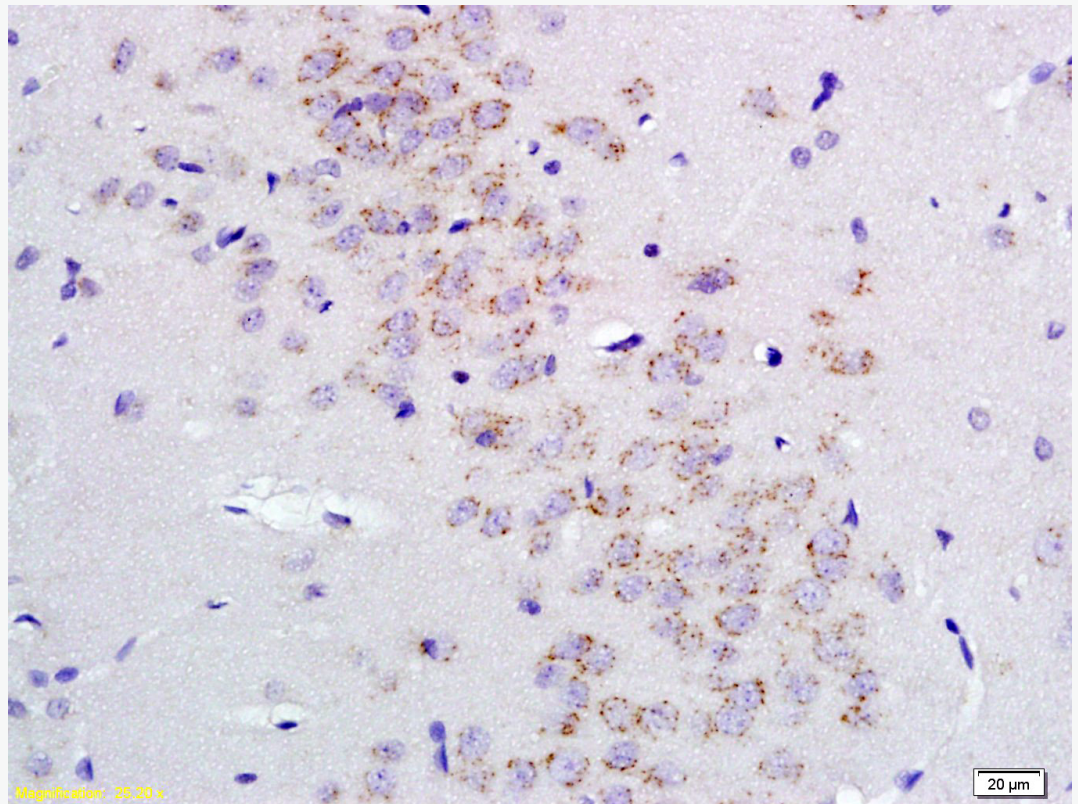
Sample: Cerebrum (mouse) Lysate at 40 ug

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

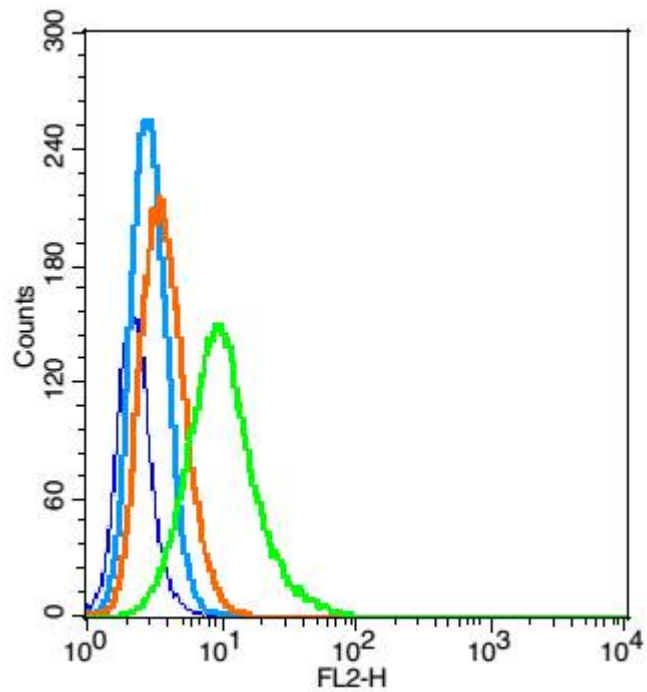
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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 ( 1M, 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 $\mu$ g in 100  $\mu$ 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.