

GABR B3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59032**Specification****GABR B3 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	P28472
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	54116

GABR B3 Polyclonal Antibody - Additional Information**Gene ID** 2562**Other Names**

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

Dilution

WB ~1:1000
IHC-P ~N/A
IHC-F ~N/A
IF ~1:50~200
ICC ~N/A
E ~N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

GABR B3 Polyclonal Antibody - Protein Information**Name** GABRB3 ([HGNC:4083](#))**Function**

Beta subunit of the heteropentameric ligand-gated chloride channel gated by gamma-aminobutyric acid (GABA), a major inhibitory neurotransmitter in the brain (PubMed: [14993607](http://www.uniprot.org/citations/14993607), PubMed: [18514161](http://www.uniprot.org/citations/18514161), PubMed: [22243422](http://www.uniprot.org/citations/22243422), PubMed: [22303015](http://www.uniprot.org/citations/22303015), PubMed: [24909990](http://www.uniprot.org/citations/24909990), PubMed: [26950270](http://www.uniprot.org/citations/26950270), PubMed: [30602789](http://www.uniprot.org/citations/30602789)). GABA-gated

chloride channels, also named GABA(A) receptors (GABAAR), consist of five subunits arranged around a central pore and contain GABA active binding site(s) located at the alpha and beta subunit interface(s) (PubMed:24909990, PubMed:30140029, PubMed:30602789). GABAARs containing beta-3/GABRB3 subunit are found at both synaptic and extrasynaptic sites (By similarity). When activated by GABA, GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed:14993607, PubMed:22303015, PubMed:26950270, PubMed:30602789). Chloride influx into the postsynaptic neuron following GABAAR opening decreases the neuron ability to generate a new action potential, thereby reducing nerve transmission (PubMed:22303015, PubMed:26950270). GABAARs containing alpha-1 and beta-3 subunits exhibit synaptogenic activity; the gamma-2 subunit being necessary but not sufficient to induce rapid synaptic contacts formation (PubMed:25489750). Extrasynaptic beta-3 receptors contribute to the tonic GABAergic inhibition (By similarity). GABAARs containing alpha-1, beta-3 and epsilon subunits may also permit spontaneous chloride channel activity while preserving the structural information required for GABA-gated openings (By similarity). Beta- containing GABAARs can simultaneously bind GABA and histamine where histamine binds at the interface of two neighboring beta subunits, which may be involved in the regulation of sleep and wakefulness (PubMed:18281286, PubMed:24909990, PubMed:35355020). Plays an important role in somatosensation and in the production of antinociception (By similarity).

Cellular Location

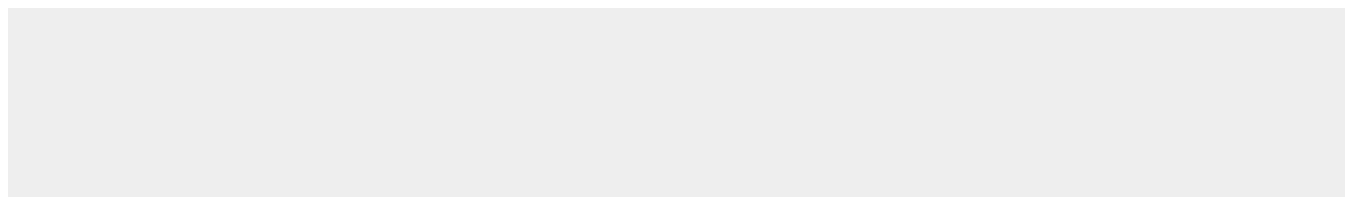
Postsynaptic cell membrane; Multi-pass membrane protein {ECO:0000269|PubMed:24909990, ECO:0000269|PubMed:35355020, ECO:0007744|PDB:7QN7}. Cell membrane; Multi-pass membrane protein {ECO:0000269|PubMed:24909990, ECO:0000269|PubMed:35355020, ECO:0007744|PDB:7QN7}. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:P63079}

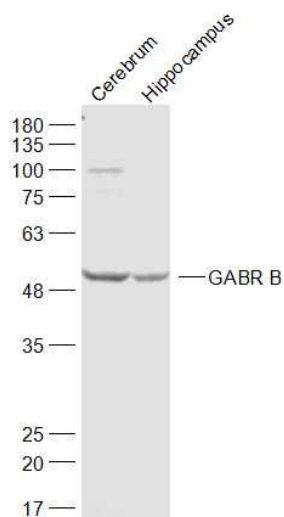
GABR B3 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GABR B3 Polyclonal Antibody - Images





Sample:

Cerebrum (Mouse) Lysate at 40 ug

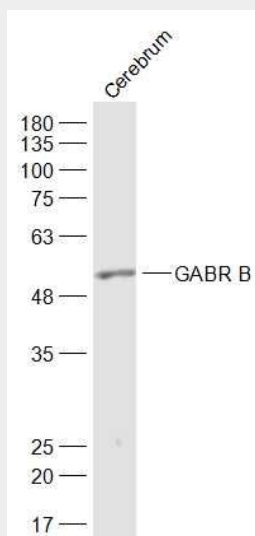
Hippocampus (Mouse) Lysate at 40 ug

Primary: Anti-GABR B3 (bs-8544R) at 1/1000 dilution

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

Predicted band size: 52 kD

Observed band size: 52 kD



Sample:

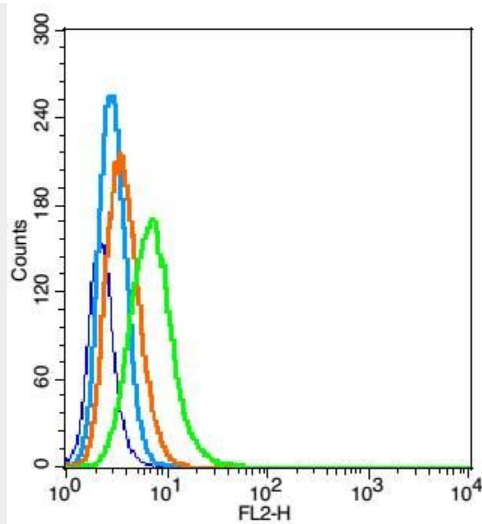
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-GABR B3 (bs-8544R) at 1/1000 dilution

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

Predicted band size: 52 kD

Observed band size: 52 kD

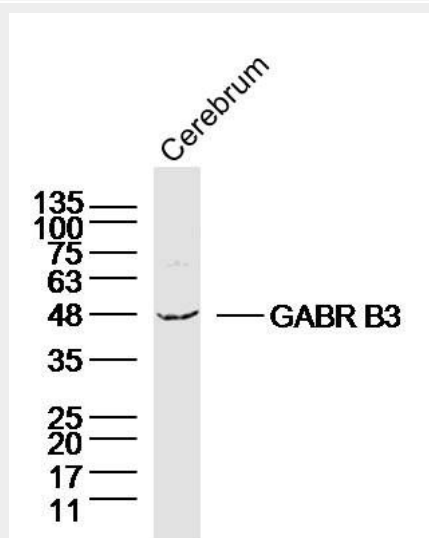


Blank control(blue):RSC96 (fixed with 2% paraformaldehyde (10 min)).

Primary Antibody:Rabbit Anti- GABR B3 antibody(bs-8544R), 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.



Sample: Cerebrum (Mouse) Lysate at 40 μ g

Primary: Anti-GABR B3 (bs-8544R) at 1/300 dilution

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

Predicted band size: 52 kD

Observed band size: 48 kD