10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-GABRR1 Antibody
Catalog # AP53814

Specification

Anti-GABRR1 Antibody - Product Information

Application	**WB**
Primary Accession	P24046
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**55883**

Anti-GABRR1 Antibody - Additional Information

Gene ID 2569

Other Names
Gamma-aminobutyric acid receptor subunit rho-1; GABA(A) receptor subunit rho-1; GABA(C) receptor

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human GABRR1. The exact sequence is proprietary.

Dilution
WB~~1/500 - 1/1000

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-GABRR1 Antibody - Protein Information

Name GABRR1 (HGNC:4090)

Function
Rho subunit of the pentameric ligand-gated chloride channels responsible for mediating the effects of gamma-aminobutyric acid (GABA), the major inhibitory neurotransmitter in the brain (PubMed:37659407). Rho-containing GABA-gated chloride channels are a subclass of GABA(A) receptors (GABAARs) entirely composed of rho subunits, where GABA molecules bind at the rho intersubunit interfaces (PubMed:37659407). When activated by GABA, rho-GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed:37659407). Rho-1

subunits are primarily expressed in retina where rho-1-containing GABAARs may play a role in retinal neurotransmission (PubMed:1849271). Rho-1 GABAARs are also involved in neuronal tonic (extrasynaptic) and phasic (synaptic) transmission in the Purkinje neurons of the cerebellum (By similarity). Rho-1 GABAARs may also contribute to the regulation of glial development in the cerebellum by controlling extrasynaptic transmission (By similarity).

Cellular Location
Postsynaptic cell membrane {ECO:0000250|UniProtKB:P56475}; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

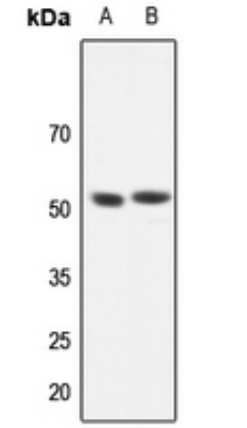
Tissue Location
Highly expressed in the retina (PubMed:1849271). Expressed in a lesser extent in brain, lung and thymus (PubMed:1849271).

Anti-GABRR1 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-GABRR1 Antibody - Images



Western blot analysis of GABRR1 expression in DLD (A), H460 (B) whole cell lysates.

Anti-GABRR1 Antibody - Background

Rabbit polyclonal antibody to GABRR1