

**GABRR1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP54721****Specification**

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**GABRR1 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">P24046</a>
Reactivity	Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GABRR1
Epitope Specificity	201-300/479
Isotype	IgG
<b>Purity</b>	
affinity purified by Protein A	
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell junction, synapse, postsynaptic cell membrane; Multipass membrane protein. Cell membrane; Multipass 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. GABRR1 sub-subfamily.
SUBUNIT	Generally pentameric. There are five types of GABA(A) receptor chains: alpha, beta, gamma, delta, and rho. Interacts with SQSTM1
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Background Descriptions**

GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA receptors, which are ligand-gated chloride channels. GABRR1 is a member of the rho subunit family. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

**GABRR1 Polyclonal Antibody - Additional Information****Gene ID** 2569**Other Names**

Gamma-aminobutyric acid receptor subunit rho-1, GABA(A) receptor subunit rho-1, GABA(C)

receptor, GABRR1

### Target/Specificity

Highly expressed in the retina and in a lesser extent in brain, lung and thymus.

### Dilution

<span class = "dilution\_WB">WB~~1:1000</span><br \><span class = "dilution\_IHC-P">IHC-P~~N/A</span><br \><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br \><span class = "dilution\_IF">IF~~1:50~200</span><br \><span class = "dilution\_ICC">ICC~~N/A</span><br \><span class = "dilution\_E">E~~N/A</span>

### 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.

## GABRR1 Polyclonal 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:<a href="http://www.uniprot.org/citations/37659407" target="\_blank">37659407</a>). 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:<a href="http://www.uniprot.org/citations/37659407" target="\_blank">37659407</a>). When activated by GABA, rho-GABAARs selectively allow the flow of chloride anions across the cell membrane down their electrochemical gradient (PubMed:<a href="http://www.uniprot.org/citations/37659407" target="\_blank">37659407</a>). Rho-1 subunits are primarily expressed in retina where rho-1-containing GABAARs may play a role in retinal neurotransmission (PubMed:<a href="http://www.uniprot.org/citations/1849271" target="\_blank">1849271</a>). 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).

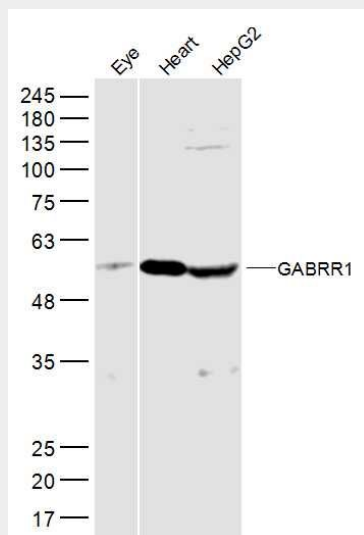
## GABRR1 Polyclonal Antibody - Protocols

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](#)

### **GABRR1 Polyclonal Antibody - Images**



#### **Sample:**

Eye (Mouse) Lysate at 40 ug

Heart (Mouse) Lysate at 40 ug

HepG2 (Human) Lysate at 30 ug

Primary: Anti-GABRR1 (bs-12084R) at 1/300 dilution

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

Predicted band size: 53 kD

Observed band size: 53 kD