

GABRR1 Rabbit pAb

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Catalog # AP54721

Product Information

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|--------------------------------|---|
| Application | WB |
| Primary Accession | P24046 |
| Reactivity | Human, Mouse, Rat |
| Predicted | Dog, Pig, Rabbit |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 55883 |
| Physical State | Liquid |
| Immunogen | KLH conjugated synthetic peptide derived from human GABRR1 |
| Epitope Specificity | 201-300/479 |
| Isotype | IgG |
| Purity | 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] |

Additional Information

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|---------------------------|--|
| Gene ID | 2569 |
| Other Names | Gamma-aminobutyric acid receptor subunit rho-1, GABA(A) receptor subunit rho-1, GABAAR subunit rho-1, GABA(C) receptor, GABRR1 (HGNC:4090) |
| Target/Specificity | Highly expressed in the retina and in a lesser extent in brain, lung and thymus. |
| Dilution | WB=1:500-2000 |
| 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.

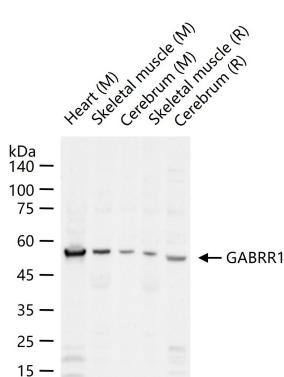
Protein Information

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|-------------------|---|
| 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). |

Background

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]

Images



25 ug total protein per lane of various lysates (see on figure) probed with GABRR1 polyclonal antibody, unconjugated (AP54721) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.