

Glycine Receptor alpha 3 Rabbit pAb

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Catalog # AP57805

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	075311
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53800
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Glycine Receptor alpha 3
Epitope Specificity	1-100/464
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	Preservative: 0.02% Proclin300, Constituents: 1% BSA, 0.01M PBS, pH7.4.
SUBCELLULAR LOCATION	Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The GLRA3 gene encodes the alpha-3 subunit of the neuronal glycine receptor, a ligand-gated chloride channel composed of ligand-binding alpha and structural beta polypeptides (Kingsmore et al., 1994 [PubMed 7894176]).[supplied by OMIM, Nov 2009]

Additional Information

Gene ID	8001
Other Names	Glycine receptor subunit alpha-3, GLRA3
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
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

Name	GLRA3
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Function	Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed: 26416729 , PubMed: 9677400). Channel characteristics depend on the subunit composition; heteropentameric channels display faster channel closure (By similarity). Plays an important role in the down-regulation of neuronal excitability (By similarity). Contributes to the generation of inhibitory postsynaptic currents (By similarity). Contributes to increased pain perception in response to increased prostaglandin E2 levels (By similarity). Plays a role in cellular responses to ethanol (By similarity).
Cellular Location	Postsynaptic cell membrane {ECO:0000250 UniProtKB:P24524}; Multi-pass membrane protein. Perikaryon {ECO:0000250 UniProtKB:P24524}. Cell projection, dendrite {ECO:0000250 UniProtKB:P24524}. Synapse {ECO:0000250 UniProtKB:P24524}. Cell membrane; Multi-pass membrane protein. Note=Partially colocalizes with GPHN that is known to mediate receptor clustering at postsynaptic membranes. {ECO:0000250 UniProtKB:P24524}
Tissue Location	Widely distributed throughout the central nervous system.

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