

AMPA1 / GLUR1 (aa264-277) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3549a**Specification**

AMPA1 / GLUR1 (aa264-277) Antibody (internal region) - Product Information

Application	WB
Primary Accession	P42261
Other Accession	NP_000818.2 , NP_001107655.1 , 2890 , 14799 (mouse), 50592 (rat)
Reactivity	Human, Mouse, Rat
Predicted	Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	101506

AMPA1 / GLUR1 (aa264-277) Antibody (internal region) - Additional Information**Gene ID** 2890**Other Names**

Glutamate receptor 1, GluR-1, AMPA-selective glutamate receptor 1, GluR-A, GluR-K1, Glutamate receptor ionotropic, AMPA 1, GluA1, GRIA1, GLUH1, GLUR1

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AMPA1 / GLUR1 (aa264-277) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

AMPA1 / GLUR1 (aa264-277) Antibody (internal region) - Protein Information**Name** GRIA1 ([HGNC:4571](#))**Synonyms** GLUH1, GLUR1**Function**

Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby

converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. In the presence of CACNG4 or CACNG7 or CACNG8, shows resensitization which is characterized by a delayed accumulation of current flux upon continued application of glutamate.

Cellular Location

Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P19490}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P19490}. Postsynaptic cell membrane; Multi-pass membrane protein. Postsynaptic density membrane {ECO:0000250|UniProtKB:P23818}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P23818}. Cell projection, dendrite {ECO:0000250|UniProtKB:P23818}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:P23818}. Early endosome membrane {ECO:0000250|UniProtKB:P19490}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P19490}. Recycling endosome membrane {ECO:0000250|UniProtKB:P19490}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P19490}. Presynapse {ECO:0000250|UniProtKB:P23818}. Synapse {ECO:0000250|UniProtKB:P23818} Note=Interaction with CACNG2, CNIH2 and CNIH3 promotes cell surface expression. Colocalizes with PDLIM4 in early endosomes. Displays a somatodendritic localization and is excluded from axons in neurons (By similarity). Localized to cone photoreceptor pedicles (By similarity) {ECO:0000250|UniProtKB:P19490, ECO:0000250|UniProtKB:P23818}

Tissue Location

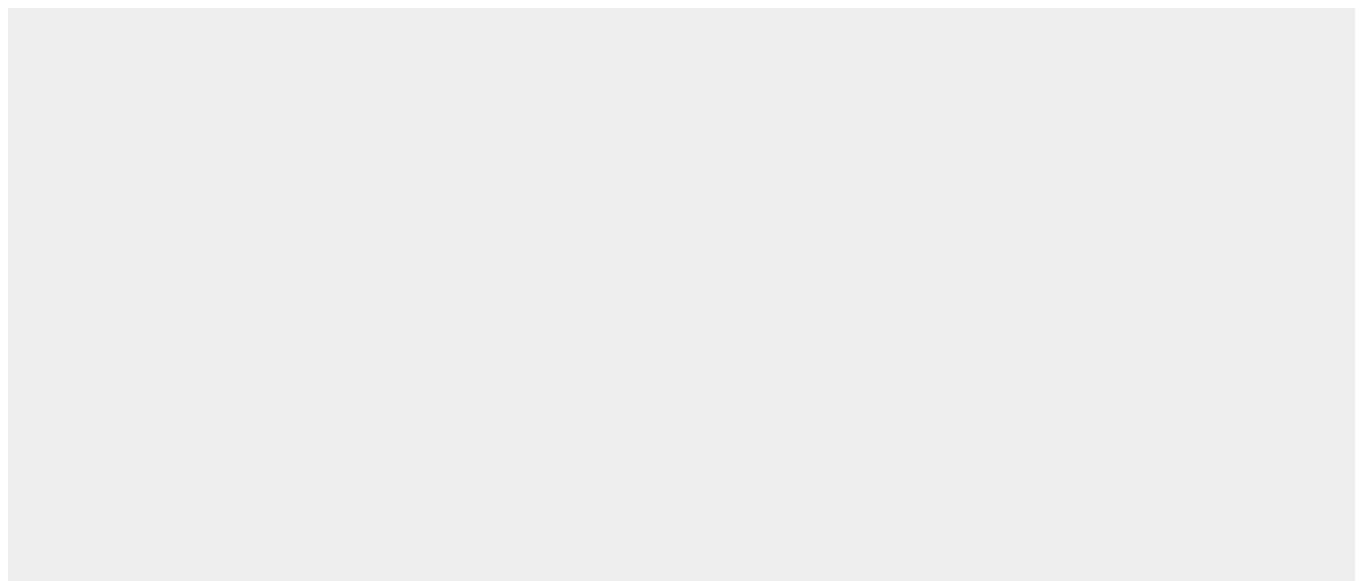
Widely expressed in brain.

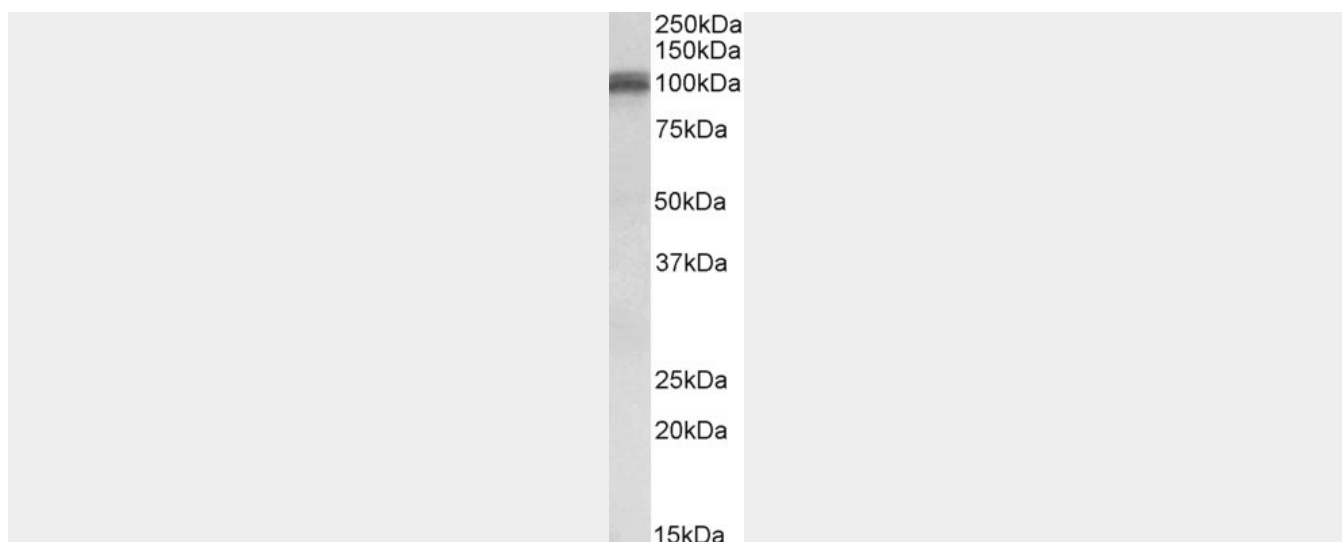
AMPA1 / GLUR1 (aa264-277) Antibody (internal region) - Protocols

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](#)

AMPA1 / GLUR1 (aa264-277) Antibody (internal region) - Images





AF3549a (0.1 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

AMPA1 / GLUR1 (aa264-277) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_000818.2; NP_001107655.1).

AMPA1 / GLUR1 (aa264-277) Antibody (internal region) - References

Postsynaptic receptor trafficking underlying a form of associative learning. Rumpel S, LeDoux J, Zador A, Malinow R. Science. 2005 Apr 1;308(5718):83-8. PMID: 15746389