

Datasheet for ABIN6658073
anti-GRIA2 antibody (C-Term)

3 Images

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Overview

Quantity:	100 µg
Target:	GRIA2
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: GluR2 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to a cytoplasmic C-terminus region of rat GluR2. Immunogen Type: Recombinant Protein
Clone:	S21-32
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-GluR2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with GluR2 from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with GluR2 from other sources has not been determined. Ion Channels research.

Target Details

Target:	GRIA2
Alternative Name:	GluR2 (GRIA2 Products)
Background:	<p>Synonyms: Glutamate receptor 2, GluR-2, GLUR2, AMPA-selective glutamate receptor 2, GluR-B, GluR-K2, Glutamate receptor ionotropic, AMPA 2, GluA2</p> <p>Background: The AMPA receptor is a non-NMDA-type ionotropic transmembrane receptor for glutamate that mediates fast synaptic transmission in the CNS. AMPARs are composed of four types of subunits, designated as GluR1, GluR2, GluR3 and GluR4, which combine to form tetramers. GluR2 is possibly the most important AMPA receptor subunit, responsible for AMPA receptor rectifying properties, control of ion flow and in particular, the influx of calcium. The majority of GluR2 in the CNS is expressed in the GluR2 form, containing a critical arginine residue in the transmembrane region 2 domain, thereby rendering native AMPA receptors impermeable to calcium.</p> <p>Gene Name: GRIA2</p>
Gene ID:	2891
NCBI Accession:	NP_000817
UniProt:	P42262
Pathways:	PI3K-Akt Signaling

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 0.1-1.0 µg/mL</p> <p>Application Note: Anti-GluR2 Antibody is suitable for use in WB, IHC, IP, and Immuno-gold EM. Expect a band approximately ~90 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.</p> <p>Immunoprecipitation Dilution: User Optimized</p> <p>Western Blot Dilution: 1 µg/mL</p> <p>IF Microscopy Dilution: 1.0-10 µg/mL</p>
Restrictions:	For Research Use only

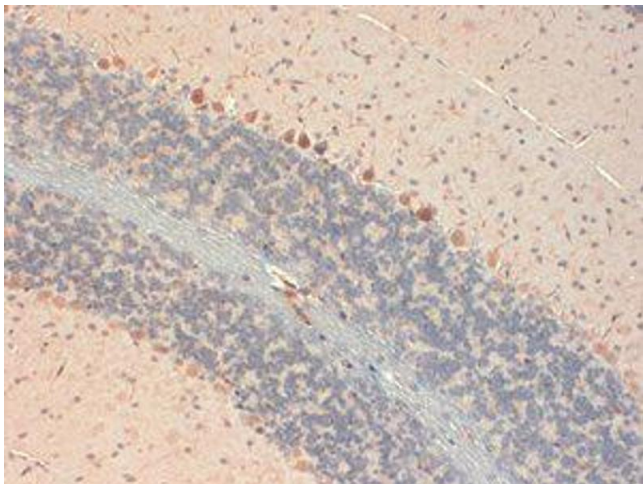
Handling

Format:	Liquid
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: 50 % (v/v) Glycerol</p>

Handling

Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images



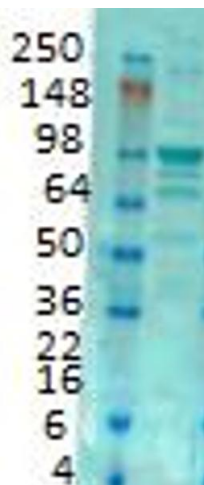
Immunohistochemistry

Image 1. GluR2 Immunohistochemistry. Immunohistochemistry of mouse anti-GluR2 antibody. Tissue: mouse cerebellum. Fixation: frozen. Primary Antibody: GluR2 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: neurons and fibers. Staining: GluR2 as precipitated purple signal.



Immunohistochemistry

Image 2. GluR2 Immunohistochemistry. Immunohistochemistry of mouse anti-GluR2 antibody. Tissue: mouse hippocampus. Fixation: frozen. Primary Antibody: GluR2 antibody at 1ug/ml for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: neurons. Staining: GluR2 as red signal.



Western Blotting

Image 3. GluR2 Western Blot. Western Blot of mouse anti-GluR2 antibody. Lane 1: molecular weight marker. Lane 2: rat brain membrane tissues. Load: 35 µg per lane. Primary antibody: GluR2 antibody at 1:1000 for overnight at 4°C. Secondary antibody: mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 98.8 kDa, ~98 kDa for GluR2. Other band(s): GluR2 splice variants and isoforms.