

Datasheet for 200-301-F34**GluR2 Antibody****Overview**

Description:	Anti-GluR2 (MOUSE) Monoclonal Antibody - 200-301-F34
Item No.:	200-301-F34
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

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.
Synonyms:	Glutamate receptor 2, GluR-2, GLUR2, AMPA-selective glutamate receptor 2, GluR-B, GluR-K2, Glutamate receptor ionotropic, AMPA 2, GluA2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S21-32
Format:	IgG1

Target Details

Gene Name:	Gria2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein

Immunogen:	GluR2 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to a cytoplasmic C-terminus region of rat GluR2.
Purity/Specificity:	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.
Relevant Links:	• NCBI - AAA41240.1 • GeneID - 29627 • UniProtKB - P19491

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-GluR2 Antibody is tested for use in WB and IHC, and is suitable in IP and Immuno-gold EM. Expect a band approximately ~90kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1.0-10ug/mL
IHC:	0.1-1.0ug/mL
IP:	User Optimized
WB:	1ug/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: 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.

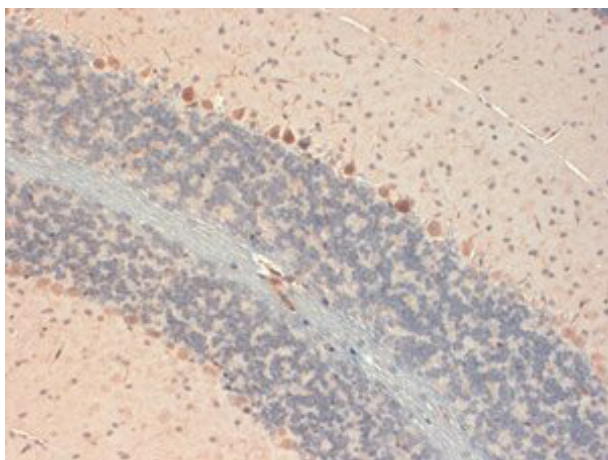
Expiration: Expiration date is one (1) year from date of receipt.

Images



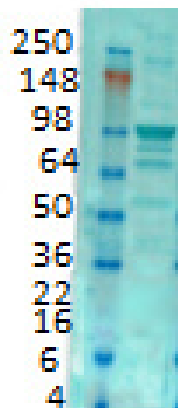
Immunohistochemistry

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.



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.

**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: IRDye800™ 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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.