

Datasheet for 612-401-D62**GluR2 Antibody****Overview**

Description:	Anti-GluR2 (RABBIT) Antibody - 612-401-D62
Item No.:	612-401-D62
Size:	100 µL
Applications:	WB
Reactivity:	Rat
Host Species:	Rabbit

Product Details

Background:	GluR2 Antibody detects GluR2. The ion channels activated by glutamate are typically divided into two classes. Those that are sensitive to N-methyl-D-aspartate (NMDA) are designated NMDA receptors (NMDAR) while those activated by α -amino-3-hydroxy-5-methyl-4-isoxalone propionic acid (AMPA) are known as AMPA receptors (AMPA). The AMPAR are comprised of four distinct glutamate receptor subunits designated (GluR1-4) and they play key roles in virtually all excitatory neurotransmission in the brain. The GluR2 subunit is thought to play a key role in forms of synaptic plasticity such as LTD. Therefore, GluR2 antibody is ideal for investigators involved in synapse plasticity study and in general in Neuroscience.
Synonyms:	Glutamate receptor 2, AMPA-selective glutamate receptor 2, GluR-B, GluR-K2, Glutamate receptor ionotropic, AMPA 2, GluA2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Gria2
Reactivity:	Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-GluR2 Antibody was produced by repeated immunizations with a synthetic peptide corresponding to amino acid residues specific to GluR2.

Purity/Specificity: Anti-GluR2 Antibody is directed against rat GluR2 protein. The antibody was affinity purified from monospecific antiserum by immunoaffinity purification. Expect reactivity with the following species based on 100% sequence homology: chicken, human, mouse, non-human primates and Zebrafish.

Relevant Links:

- [UniProtKB - P19491](#)
- [GeneID - 29627](#)
- [NCBI - AAA41240.1](#)

Application Details

Tested Applications: WB

Application Note: Anti-GluR2 (Rabbit) antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 100 kDa in size corresponding to GluR2 protein in the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: 1:1000

Formulation

Physical State: Liquid

Buffer: 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5

Stabilizer: 0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

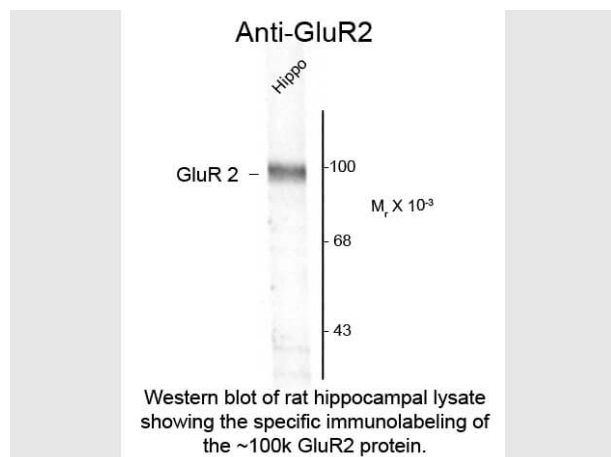
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

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

Images



Western Blot

Western Blot of Rabbit anti-GluR-2 antibody. Lane 1: rat hippocampal. Lane 2: none. Load: 10 µg per lane. Primary antibody: GluR2 antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 100 kDa, 100 kDa for GluR 2. Other band(s): none.

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.