

Datasheet: AHP986

BATCH NUMBER 147636

Description:	RABBIT ANTI GluR2
Specificity:	GluR2
Other names:	GLUTAMATE RECEPTOR 2
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species

Rat

Species Cross Reactivity

Reacts with: Human

Based on sequence similarity, is expected to react with: Monkey, Mouse, Chicken, Zebrafish

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation Antisera to rat GluR2 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution 10mM Hepes pH7.5

Preservative 0.09% Sodium Azide
Stabilisers 0.01% Bovine Serum Albumin
50% Glycerol

Immunogen Keyhole limpet haemocyanin conjugated synthetic peptide corresponding to an amino acid sequence within rat GluR2.

External Database Links

UniProt:

[P19491](#) [Related reagents](#)

Entrez Gene:

[29627](#) Gria2 [Related reagents](#)

Synonyms Glur2

RRID AB_2113761

Specificity **Rabbit anti Human GluR2 antibody** recognizes glutamate receptor subunit 2 (GluR2), a component of the AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxalone propionic acid) group of ionotropic glutamate receptors, which play a key role at excitatory synapses, including synaptic transmission, stabilisation and plasticity.

GluR2 is possibly the most important of the AMPA receptor subunits, 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(R) form, containing a critical arginine residue (as opposed to a glutamine residue) in the Transmembrane region 2 (TM2) domain, thereby rendering native AMPA receptors impermeable to calcium.

Western Blotting AHP986 detects a band of approximately 100 kDa in rat brain hippocampus cell lysates.

Further Reading

1. Egebjerg, J. *et al.* (1994) Intron sequence directs RNA editing of the glutamate receptor subunit GluR2 coding sequence. [Proc Natl Acad Sci U S A. 91 \(22\): 10270-4.](#)
2. Vandenberghe, W. *et al.* (2000) AMPA receptor calcium permeability, GluR2 expression, and selective motoneuron vulnerability. [J Neurosci. 20 \(1\): 123-32.](#)

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10088 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP986>
10088

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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