

Datasheet: AHP986

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.
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 Stabilisers	0.09% Sodium Azide 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

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.

Shelf Life

12 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10088 available at:
10088: <https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

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

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M285750:160408'

Printed on 02 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)