

## Datasheet: AHP986

<b>Description:</b>	RABBIT ANTI GluR2
<b>Specificity:</b>	GluR2
<b>Other names:</b>	GLUTAMATE RECEPTOR 2
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Rat
<b>Species Cross Reactivity</b>	<p>Reacts with: Human</p> <p>Based on sequence similarity, is expected to react with: Monkey, Mouse, Chicken, Zebrafish</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	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.

---

<b>Buffer Solution</b>	10mM Hepes pH7.5
------------------------	------------------

---

<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	0.01% Bovine Serum Albumin 50% Glycerol

---

<b>Immunogen</b>	Keyhole limpet haemocyanin conjugated synthetic peptide corresponding to an amino acid sequence within rat GluR2.
------------------	---

---

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P19491</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">29627</a> Gria2 <a href="#">Related reagents</a>
--------------------------------	---

---

<b>Synonyms</b>	Glur2
-----------------	-------

---

<b>RRID</b>	AB_2113761
-------------	------------

---

<b>Specificity</b>	<p><b>Rabbit anti Human GluR2 antibody</b> 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.</p> <p>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.</p>
--------------------	---

---

<b>Western Blotting</b>	AHP986 detects a band of approximately 100 kDa in rat brain hippocampus cell lysates.
-------------------------	---

---

<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Egebjerg, J. <i>et al.</i> (1994) Intron sequence directs RNA editing of the glutamate receptor subunit GluR2 coding sequence. <a href="#">Proc Natl Acad Sci U S A. 91 (22): 10270-4.</a></li><li>2. Vandenberghe, W. <i>et al.</i> (2000) AMPA receptor calcium permeability, GluR2 expression, and selective motoneuron vulnerability. <a href="#">J Neurosci. 20 (1): 123-32.</a></li></ol>
------------------------	--

---

<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
----------------	---

---

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP986">https://www.bio-rad-antibodies.com/SDS/AHP986</a> 10088
<b>Regulatory</b>	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 (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M383001:210513'

Printed on 18 Jan 2024