

## Datasheet: AHP914

<b>Description:</b>	RABBIT ANTI GluR1 (pSer831)
<b>Specificity:</b>	GluR1 (pSer831)
<b>Other names:</b>	GLUTAMATE RECEPTOR 1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.15 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.

### Target Species

Rat

### Species Cross Reactivity

Based on sequence similarity, is expected to react with: Mouse, Dog, Human, Chicken  
**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 phosphorylated GluR1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared by sequential affinity chromatography on phospho- and dephosphopeptide affinity columns.

<b>Buffer Solution</b>	10mM HEPES pH7.5
<b>Preservative Stabilisers</b>	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	Synthetic phosphopeptide corresponding to amino acid sequence within GluR1 which includes the phosphorylated residue Ser831.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P19490</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">50592</a> Gria1 <a href="#">Related reagents</a>
<b>Synonyms</b>	Glur1
<b>RRID</b>	AB_566985
<b>Specificity</b>	<b>Rabbit anti Rat GluR1 (pSer831) antibody</b> recognizes glutamate receptor 1 (GluR1), also known as AMPA-selective glutamate receptor 1, GluR-A, GluR-K1 and glutamate receptor ionotropic , AMPA 1 (GluA1), when phosphorylated at serine 831.  GluR1, widely expressed throughout the nervous system is a component of AMPA receptors (alpha-amino-3-hydroxy-5-methyl-4-isoxalone propionic acid receptors), which play a key role at excitatory synapses.  Phosphorylation of Ser831 and Ser845 is reported to potentiate GluR1 function, suggesting a possible role in synaptic plasticity, learning and memory.
<b>Western Blotting</b>	AHP914 detects a band of approximately 100 kDa in rat brain lysates.
<b>Further Reading</b>	1. Castellani, G.C. <i>et al.</i> (2001) A biophysical model of bidirectional synaptic plasticity: Dependence on AMPA and NMDA receptors. <a href="#">Proc. Natl. Acad. Sci. USA. 98: 12772 - 12777.</a>
<b>Storage</b>	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.  Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
<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/AHP914">https://www.bio-rad-antibodies.com/SDS/AHP914</a>

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**Regulatory**For research purposes only

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## 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](#)**North & South** Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)**Worldwide**

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