

# Datasheet: AHP914 BATCH NUMBER 166838

Description:	RABBIT ANTI GluR1 (pSer831)
Specificity:	GluR1 (pSer831)
Other names:	GLUTAMATE RECEPTOR 1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	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 <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.
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.		
Buffer Solution	10mM HEPES pH7.5		
Preservative Stabilisers	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol		
Immunogen	Synthetic phosphopeptide corresponding to amino acid sequence within GluR1 which includes the phosphorylated residue Ser831.		
External Database Links	UniProt: P19490 Related reagents  Entrez Gene: 50592 Gria1 Related reagents		
Synonyms	Glur1		
RRID	AB_566985		
Specificity	Rabbit anti Rat GluR1 (pSer831) antibody 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.		
Western Blotting	AHP914 detects a band of approximately 100 kDa in rat brain lysates.		
Further Reading	1. Castellani, G.C. <i>et al.</i> (2001) A biophysical model of bidirectional synaptic plasticity: Dependence on AMPA and NMDA receptors. <u>Proc. Natl. Acad. Sci. USA. 98: 12772 - 12777.</u>		
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store a		

Guarantee	12 months from date of despatch

frost-free freezers is not recommended.

-20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

Avoid repeated freezing and thawing as this may denature the antibody. Storage in

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Health And Safety

Information

Material Safety Datasheet documentation #10088 available at:

https://www.bio-rad-antibodies.com/SDS/AHP914

10088

**Regulatory** For research purposes only

## **Related Products**

### **Recommended Secondary Antibodies**

Sheep Anti Rabbit IgG (STAR34...) <u>FITC</u>

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

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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 'M382447:210513'

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