

Datasheet: AHP914

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 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.

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	<p>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.</p> <p>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.</p> <p>Phosphorylation of Ser831 and Ser845 is reported to potentiate GluR1 function, suggesting a possible role in synaptic plasticity, learning and memory.</p>
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. Proc. Natl. Acad. Sci. USA. 98: 12772 - 12777.
Storage	<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>
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/AHP914

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 (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**Worldwide**

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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

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