

Datasheet: AHP915

Description:	RABBIT ANTI GluR1 (pSer845)
Specificity:	GluR1 (pSer845)
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)	▪			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.

(1) For the detection of phosphoproteins, serine phosphatase inhibitors such as 10mM Sodium Fluoride should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.

Target Species	Rat
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Monkey, Human, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to phosphorylated GluR1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	10mM HEPES pH7.5
Preservative Stabilisers	0.09% Sodium Azide 0.01% Bovine Serum Albumin 50% Glycerol

Immunogen	Synthetic phosphopeptide corresponding to an amino acid sequence within rat GluR1 which includes the phosphorylated residue Ser845.
External Database Links	<p>UniProt: P19490 Related reagents</p> <p>Entrez Gene: 50592 Gria1 Related reagents</p>
Synonyms	Glur1
Specificity	<p>Rabbit anti Rat GluR1 (pSer845) 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 845.</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. Phosphorylation of Ser831 and Ser845 is reported to potentiate GluR1 function, suggesting a possible role in synaptic plasticity, learning and memory.</p>
Western Blotting	AHP915 detects a band of approximately 100kDa in rat brain lysates.
References	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>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
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

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