

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)	■			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: Mouse, Dog, Human, Chicken 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 was prepared by sequential affinity chromatography on phospho- and dephosphopeptide affinity columns.
Buffer Solution	10mM HEPES pH7.5
Preservative	0.09% Sodium Azide
Stabilisers	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
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. Proc. Natl. Acad. Sci. USA. 98: 12772 - 12777.
Storage	Store at +4°C or -20°C if preferred. Storage in frost-free freezers is not recommended. 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.
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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