

Datasheet: 4670-5107

Description:	RABBIT ANTI RAT GLUTAMATE RECEPTOR 1 (C-TERMINAL)
Specificity:	GluR1 (C-TERMINAL)
Other names:	GLUTAMATE RECEPTOR 1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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
Immunohistology - Frozen	▪			1 µg/ml - 3 µg/ml
Immunoprecipitation	▪			
Western Blotting	▪			0.5 µg/ml - 2.5 µg/ml

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

Target Species	Rat
Species Cross Reactivity	Reacts with: Human, Hamster, Monkey N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified Ig - liquid
Preparation	Purified Ig prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Ig concentration 1 mg/ml
Immunogen	Synthetic peptide corresponding to the C terminal region (SHSSGMPLGATGL) of the native molecule conjugated to Bovine Serum Albumin.
External Database Links	UniProt:

[P19490](#) [Related reagents](#)

Entrez Gene:

[50592](#) Gria1 [Related reagents](#)

Synonyms	Glur1
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Specificity	<p>Rabbit anti Rat Glutamate Receptor 1 (C-Terminal) antibody recognizes the glutamate receptor 1 (also known as AMPA) which acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L-glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist.</p> <p>This antibody linked to immobilized Protein A immunoprecipitates detergent-solubilized receptor from brain or transfected cells.</p>
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Immunohistology	Paraformaldehyde or paraformaldehyde/glutaraldehyde are suitable. Cryostat and vibratome sections can be used with or without Triton X-100 treatment.
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Western Blotting	Western blot analysis of rat brain shows a single band of approximately 110 kDa co-migrating with GluR1 expressed in transfected cells.
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References	<ol style="list-style-type: none">1. Petralia, R. S. & Wenthold, R. J. (1992) Light and electron immunocytochemical localization of AMPA-selective glutamate receptors in the rat brain J Comp Neurol 318: 329 - 3542. Wenthold, R. J. <i>et al.</i> (1992) Immunocytochemical characterization of the non-NMDA glutamate receptor using subunit-specific antibodies. Evidence for a hetero-oligomeric structure in rat brain J Biol Chem 267: 501 - 507
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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>
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Shelf Life	12 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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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 (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](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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