

## Datasheet: AHP1871

<b>Description:</b>	RABBIT ANTI RAT METABOTROPIC GLUTAMATE RECEPTOR 1a
<b>Specificity:</b>	METABOTROPIC GLUTAMATE RECEPTOR 1a
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen	■			1/500
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting	■			1/1000

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 appropriate negative/positive controls.

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified IgG - liquid

**Antiserum Preparation** Antisera to metabotropic glutamate receptor 1a were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

<b>Buffer Solution</b>	10mM HEPES pH7.5, 150mM NaCl
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.01% Bovine Serum Albumin 50% Glycerol

**Immunogen** Peptide corresponding to amino acids 1115-1130 from the C-terminal region of rat mGluR1a.

### External Database Links

**UniProt:**  
[P23385](#)    [Related reagents](#)

**Entrez Gene:**  
[24414](#) Grm1    [Related reagents](#)

<b>Synonyms</b>	Gprc1a, Mglur1
<b>Specificity</b>	<b>Rabbit anti Rat metabotropic glutamate receptor 1a antibody</b> recognizes rat metabotropic glutamate receptor 1a (mGluR1a). The metabotropic glutamate receptors have been organised into three groups. mGluR5 and mGluR1 make up group I which, when activated, stimulates phospholipase C and activates protein kinase C to hydrolyse phosphoinositide phospholipids in the cell membrane. Group I mGluRs, but not other groups, are activated by 3, 5-dihydroxyphenylglycine (DHPG).
<b>Western Blotting</b>	AHP1871 detects bands of approximately 125kDa (monomer) and 250kDa (dimer) on lysate from transfected HEK293 cells.  This antibody has also been reported to detect bands at approximately 120kDa (reduced) and 210kDa (non-reduced), in protein extracts from adult rat cerebellum.
<b>References</b>	1. Copani, A. <i>et al.</i> (2000) Reducing conditions differentially affect the functional and structural properties of group-I and -II metabotropic glutamate receptors. <a href="#">Brain Res. 867 (1-2): 165-72.</a>
<b>Storage</b>	Store at +4°C or at -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.
<b>Shelf Life</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10088 available at: 10088: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)
- Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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