Datasheet: AHP1871

BATCH NUMBER 300315

Description:	RABBIT ANTI RAT METABOTROPIC GLUTAMATE RECEPTOR 1a
Specificity:	METABOTROPIC GLUTAMATE RECEPTOR 1a
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species

Rat

Product Form

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.

Buffer Solution

10mM HEPES pH7.5, 150mM NaCl

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)
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
Synonyms	Gprc1a, Mglur1
RRID	AB_1720111
Specificity	**Rabbit anti Rat metabotropic glutamate receptor 1a antibody** 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).
Western Blotting	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 210kD (non-reduced), in protein extracts from adult rat cerebellum.
References	1. Copani, A. *et al.* (2000) Reducing conditions differentially affect the functional and structural properties of group-I and -II metabotropic glutamate receptors. Brain Res. 867 (1-2): 165-72.
Storage	Store at +4^{o}C or at -20^{o}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.
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/AHP1871 10088
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) FITC

Goat Anti Rabbit IgG (Fc) (STAR121...)	Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...)	RPE
Goat Anti Rabbit IgG (H/L) (STAR124...)	HRP

Recommended Useful Reagents

TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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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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