

Datasheet: AHP1301

Description:	RABBIT ANTI GABA B RECEPTOR 2 (pSer783)
Specificity:	GABA B RECEPTOR 2 (pSer783)
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				
Immunohistology - Paraffin			•	
ELISA			•	
Immunoprecipitation			•	
Western Blotting (1)	-			1/1000
Immunofluorescence	-			1/500

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.

(1)For the detection of phosphoproteins, tyrosine phosphatase inhibitors such as 1mM Sodium Orthovanadate 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, Prim Chicken  N.B. Antibody reactivity and working conditions may vary between s	
Product Form	Purified IgG - liquid	
Antiserum Preparation	n Antisera to GABA <sub>B</sub> receptor 2 were raised by repeated immunisation antigen. Purified IgG was prepared by affinity chromatography.	ns of rabbits with highly purified
Buffer Solution	HEPES buffered saline.	
Preservative Stabilisers	0.09% Sodium Azide (NaN <sub>3</sub> ) 0.01% Bovine Serum Albumin	

	50% Glycerol
Immunogen	Synthetic phosphopeptide corresponding to an amino acid sequence within GABA <sub>B</sub> receptor 2, which includes the phosphorylated residue Ser783.
External Database Links	UniProt:  O88871 Related reagents  Entrez Gene:  83633 Gabbr2 Related reagents
Synonyms	Gpr51
Specificity	Rabbit anti Rat GABA B receptor 2 (pSer783) antibody recognizes gamma-aminobutyric acid type B receptor subunit 2 (GABA B receptor 2), also known as G-protein coupled receptor 51, when phosphorylated at serine 783.
	GABA B receptors are heterodimeric G-protein coupled receptors which are important mediators of slow neuronal inhibition in the mammalian central nervous system. The functional expression of GABA B receptors on plasma membranes is dependent upon the co-expression of GABR1 (gamma-aminobutyric acid B (GABA B) receptor 1) and GABR2. Phosphorylation of GABR2 at the serine 783 site, by AMPK (5'AMP-activated protein kinase), is vital for enhancing the survival of neurons following ischemic brain injury.
Western Blotting	AHP1301 detects a band of approximately 102kDa in rat synaptic membrane cell lysates.
References	1. Kuramoto, N. <i>et al.</i> (2012) Dephosphorylation of endogenous GABA(B) receptor R2 subunit and AMPK α subunits which were measured by in vitro method using transfer membrane. Neurochem Int. pii: S0197-0186(12)00393-2.
Further Reading	1. Bowery, N.G. <i>et al.</i> (2002) International Union of Pharmacology XXXIII. Mammalian gamma-aminobutyric acid <sub>B</sub> receptors: structure and function. <u>Pharmacol. Rev. 54: 247-264.</u>
Storage	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.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10088 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10088.pdf</a>
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...) <u>DyLight®488</u>, <u>DyLight®549</u>, <u>DyLight®649</u>,

DyLight®680, DyLight®800

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