

Datasheet: AHP922

Description:	RABBIT ANTI GABA A RECEPTOR ALPHA 4 (C-TERMINAL)
Specificity:	GABA A RECEPTOR ALPHA 4 (C-TERMINAL)
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	■			1/1000

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.

Target Species	Rat
Species Cross Reactivity	Reacts with: Human, Bovine, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to GABA _A receptor were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	10mM HEPES pH7.5
Preservative	0.09% Sodium Azide
Stabilisers	0.01% Bovine Serum Albumin 50% Glycerol
Immunogen	Synthetic peptide corresponding to the C-Terminal region of the alpha 4 subunit of rat GABA _A receptor coupled to KLH.
External Database	UniProt:

Links

[P28471](#) [Related reagents](#)

Entrez Gene:

[140675](#) Gabra4 [Related reagents](#)

Specificity

Rabbit anti GABA A receptor alpha 4 antibody recognizes the alpha 4 subunit of rat gamma-aminobutyric acid A (GABA_A) receptor.

GABA_A receptors are GABA gated chloride channels, which are important mediators of neuronal inhibition in the mammalian central nervous system. Activation of the GABA_A site results in increased intracellular chloride concentration and hyperpolarization of the cell.

GABA_A receptors are pentameric structures assembled from a family of distinct subunits. At least fourteen distinct subunits have been identified, which show distinct patterns of temporal and spatial expression. GABA_A receptors may be modulated by several drug types including benzodiazepines and barbiturates, and by phosphorylation by protein kinase C (PKC) and protein kinase A (PKA).

Western Blotting

AHP922 detects a band of approximately 64kDa in rat brain lysates.

Further Reading

1. Burt, D.R. *et al.* (1991) GABA_A receptor subtypes: from pharmacology to molecular biology. [FASEB. J. 5: 2916-2923.](#)

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. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10088 available at:
<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](#)

Recommended Useful Reagents

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

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Fax: +1 919 878 3751

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