

Datasheet: AHP360

BATCH NUMBER 157118

Description:	RABBIT ANTI GLUTAMATE DECARBOXYLASE 1/2
Specificity:	GLUTAMATE DECARBOXYLASE 1/2 65/67kDa
Other names:	GAD1, GAD2
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	▪			1/200 - 1/5000
Immunohistology - Paraffin	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/1000 - 1/10000
Immunofluorescence	▪			

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	<p>Reacts with: Cat, Human, Mouse</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid

Antiserum Preparation Antiserum to glutamic acid decarboxylase was raised by repeated immunisation of with

highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography on protein A.

Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
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Immunogen	Synthetic peptide sequence D-F-L-I-E-E-I-E-R-L-G-Q-D-L from the C terminus of rat GAD2
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External Database Links	UniProt: Q05683 Related reagents Entrez Gene: 24380 Gad2 Related reagents
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Synonyms	Gad65
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RRID	AB_322069
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Specificity	Rabbit anti Glutamate Decarboxylase 1/2 antibody recognizes both molecular forms of glutamate decarboxylase, GAD1 (GAD67) and GAD2 (GAD65), the enzyme which converts glutamic acid to gamma -aminobutyric acid (GABA), the major inhibitory transmitter in the higher brain region.
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Histology Positive Control Tissue	Brain
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Western Blotting	A doublet at approximately 65/67 kDa can be expected
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References	<ol style="list-style-type: none">Hernández-montiel, H.L. <i>et al.</i> (2003) Diffusible signals and fasciculated growth in reticulospinal axon pathfinding in the hindbrain. Dev Biol. 255 (1): 99-112.Baizer, J.S. <i>et al.</i> (2011) Neurochemical and structural organization of the principal nucleus of the inferior olive in the human. Anat Rec (Hoboken). 294: 1198-216.Klusa, V. <i>et al.</i> (2013) Mildronate enhances learning/memory and changes hippocampal protein expression in trained rats. Pharmacol Biochem Behav. pii: S0091-3057(13)00078-6.Wang, X. <i>et al.</i> (2008) A novel expression platform for the production of diabetes-associated autoantigen human glutamic acid decarboxylase (hGAD65). BMC Biotechnol. 8:87Baizer, J.S. (2014) Unique features of the human brainstem and cerebellum. Front Hum Neurosci. 8: 202.Solís-S, J.C. <i>et al.</i> (2018) Signals from the caudal diencephalon are required for the projection of the Interstitial Nuclei of Cajal. Int J Dev Neurosci. 69: 10-6.
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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.
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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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP360 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[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](https://www.bio-rad-antibodies.com/datasheets)

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