

Datasheet: AHP360 BATCH NUMBER 150756

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 <u>www.bio-rad-antibodies.com/protocols</u> .					
		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					
	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: Cat, Human, Mouse 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.					
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			
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)			
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			
External Database Links	UniProt: <u>Q05683</u> <u>Related reagents</u> Entrez Gene: <u>24380</u> Gad2 <u>Related reagents</u>			
Synonyms	Gad65			
RRID	AB_322069			
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.			
Histology Positive Control Tissue	Brain			
Western Blotting	A doublet at approximately 65/67 kDa can be expected			
References	 Hernández-montiel, H.L. <i>et al.</i> (2003) Diffusible signals and fasciculated growth in reticulospinal axon pathfinding in the hindbrain. <u>Dev Biol. 255 (1): 99-112.</u> Baizer, J.S. <i>et al.</i> (2011) Neurochemical and structural organization of the principal nucleus of the inferior olive in the human. <u>Anat Rec (Hoboken). 294: 1198-216.</u> Klusa, V. <i>et al.</i> (2013) Mildronate enhances learning/memory and changes hippocampal protein expression in trained rats. <u>Pharmacol Biochem Behav. pii:</u> <u>S0091-3057(13)00078-6.</u> Wang, X. <i>et al.</i> (2008) A novel expression platform for the production of diabetes-associated autoantigen human glutamic acid decarboxylase (hGAD65). <u>BMC Biotechnol.</u> <u>8:87</u> Baizer, J.S. (2014) Unique features of the human brainstem and cerebellum. <u>Front Hum Neurosci. 8: 202.</u> Solis-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. 			
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 free denature the antibody. Should this product contain a precipita microcentrifugation before use.		
Guarantee	12 months from date of despatch		
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP360 10040		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (Fc) (STAR121...) <u>Biotin</u>, <u>FITC</u>, <u>HRP</u> Goat Anti Rabbit IgG (H/L) (STAR124...)<u>HRP</u>

Sheep Anti Rabbit IgG (STAR35...) RPE

Recommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A) TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	d.com	Email: antibody_sales_uk@bio-ra	ad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M364191:200529'

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