

Datasheet: AHP377 BATCH NUMBER 152173

Description:	RABBIT ANTI DYNORPHIN B (aa1-13)		
Specificity:	DYNORPHIN B (aa1-13)		
Format:	Serum		
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				1/250 - 1/2500
Immunohistology - Paraffin				
ELISA			•	
Immunoprecipitation			•	
Western Blotting				
Radioimmunoassays	•			1/5000

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	Pig
Species Cross Reactivity	Reacts with: Rhesus Monkey, Hamster, Rat, Guinea Pig, Mouse Based on sequence similarity, is expected to react with:Bovine, Chimpanzee, Dog, Gorilla, Horse, 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	Serum - liquid

Antiserum Preparation Antisera to Dynorphin B (1-13) were raised by repeated immunisation of rabbits with

	highly purified antigen.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Synthetic peptide, YGGFLRRQFKVVT, corresponding to full-length porcine dynorphin B (1-13), conjugated to thyroglobulin.
External Database Links	UniProt: P01214 Related reagents Entrez Gene: 445529 PDYN Related reagents
RRID	AB_322029
Specificity	Rabbit anti Dynorphin B antibody recognizes dynorphin B, an endogenous opioid peptide, also known as rimorphin with the peptide sequence Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Gln-Phe-Lys-Val-Val-Thr, derived from the sequential cleavage of pro-enkephalin B to form leumorphin which is, in turn cleaved to form dynorphin B (Devi et al. 1985). The cleavage of the dynorphin precursors to form the dynorphin neuropeptides is largely controlled by the serine protease cathepsin L which co-localizes with dynorphins in secretory vesicles of brain cortical neurons(Funkelstein et al. 2010) and prohormone convertase 2, a member of the furin, peptidate S8 family (Schwarzer 2009).
	Dynorphin b sequence is well conserved among mammal, avian (<u>Youngren et al. 1993</u>) and reptilian (<u>Goldsmith et al. 1992</u>) species. Rabbit anti Dynorphin b antibody is expected to have a wide species cross reactivity.
References	 Khachaturian, H. <i>et al.</i> (1985) Prodynorphin peptide immunocytochemistry in rhesus monkey brain. Peptides. 6 Suppl 2: 155-66. Sherman, T.G. <i>et al.</i> (1988) Regulation of hypothalamic magnocellular neuropeptides and their mRNAs in the Brattleboro rat: coordinate responses to further osmotic challenge. J Neurosci. 8 (10): 3785-96. NealCr, J.r. & Newman, S.W. (1989) Prodynorphin peptide distribution in the forebrain of the Syrian hamster and rat: a comparative study with antisera against dynorphin A, dynorphin B, and the C-terminus of the prodynorphin precursor molecule. J Comp Neurol. 288 (3): 353-86. Zhang, L. <i>et al.</i> (2004) Cocaine-induced intracellular signaling and gene expression are oppositely regulated by the dopamine D1 and D3 receptors. J Neurosci. 24: 3344-54. Darmopil, S. <i>et al.</i> (2009) Genetic inactivation of dopamine D1 but not D2 receptors inhibits L-DOPA-induced dyskinesia and histone activation. Biol Psychiatry. 66: 603-13. Ruiz-DeDiego, I. <i>et al.</i> (2014) Activation of DREAM (Downstream Regulatory Element Antagonistic Modulator), a Calcium-Binding Protein, Reduces L-DOPA-Induced
	Dyskinesias in Mice. <u>Biol Psychiatry. pii: S0006-3223(14)00224-8.</u> 7. Solís, O. <i>et al.</i> (2021) Behavioral sensitization and cellular responses to

psychostimulants are reduced in D2R knockout mice. Addict Biol. 26 (1): e12840.

Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted.
	Storage in frost free freezers is not recommended. 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 #20362 available at: https://www.bio-rad-antibodies.com/SDS/AHP377 20362
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

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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 'M364196:200529'

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