

Datasheet: AHP377

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	<p>Reacts with: Rhesus Monkey, Hamster, Rat, Guinea Pig, Mouse</p> <p>Based on sequence similarity, is expected to react with: Bovine, Chimpanzee, Dog, Gorilla, Horse, Human, Mouse</p> <p>N.B. Antibody reactivity and working conditions may vary between species.</p>
Product Form	Serum - liquid
Antiserum Preparation	Antisera to Dynorphin B (1-13) were raised by repeated immunisation of rabbits with highly purified antigen.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin
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](#)

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 leuomorphin 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 ([Youngren et al. 1993](#)) and reptilian ([Goldsmith et al. 1992](#)) species. Rabbit anti Dynorphin b antibody is expected to have a wide species cross reactivity.

References

1. Khachaturian, H. *et al.* (1985) Prodynorphin peptide immunocytochemistry in rhesus monkey brain. [Peptides. 6 Suppl 2: 155-66.](#)
2. Sherman, T.G. *et al.* (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.](#)
3. 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.](#)
4. Zhang, L. *et al.* (2004) Cocaine-induced intracellular signaling and gene expression are oppositely regulated by the dopamine D1 and D3 receptors. [J Neurosci. 24: 3344-54.](#)
5. Darmopil, S. *et al.* (2009) Genetic inactivation of dopamine D1 but not D2 receptors inhibits L-DOPA-induced dyskinesia and histone activation. [Biol Psychiatry. 66: 603-13.](#)
6. Ruiz-DeDiego, I. *et al.* (2014) Activation of DREAM (Downstream Regulatory Element Antagonistic Modulator), a Calcium-Binding Protein, Reduces L-DOPA-Induced Dyskinesias in Mice. [Biol Psychiatry. pii: S0006-3223\(14\)00224-8.](#)

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10041 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10041.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](#)

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