

Datasheet: AHP378

BATCH NUMBER 164610

Description:	RABBIT ANTI LEUMORPHIN
Specificity:	LEUMORPHIN
Other names:	DYNORPHIN B-29
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	▪			1/100 - 1/2000
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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.

Species Cross Reactivity

Reacts with: Rat, 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 Leumorphin were raised by repeated immunisation of rabbits with highly purified antigen. Whole serum is supplied - diluted.

Preservative Stabilisers

<0.1% Sodium Azide (NaN₃)

Immunogen	Leumorphin: Arg-Ser-Gln-Glu-Asn-Pro-Asn-Thr-Tyr-Ser-Glu-Asp-Leu-Asp-Val (rat 14-28)
External Database Links	<p>UniProt: P06300 Related reagents</p> <p>Entrez Gene: 29190 Pdyn Related reagents</p>
RRID	AB_2283688
Specificity	<p>Rabbit anti Leumorphin antibody recognizes rat leumorphin, also known as dynorphin B29. Leumorphin is a 28 amino acid opioid peptide resulting from cleavage of proenkephalin-B. Leumorphin positive cells are found in the paraventricular, supraoptic nucleus and fibres in the lateral hypothalamus of colchicine treated rat brain (Neal & Newman 1989). Leumorphin has been reported to exert anti-apoptotic effects in rat PC12 pheochromocytoma cells (Lee et al. 2005).</p> <p>Rabbit anti leumorphin has been used successfully to detect leumorphin in murine brain using immunohistochemistry on cryostat sections. (Zhang et al.2005).</p>
References	<ol style="list-style-type: none"> Zhang, D. <i>et al.</i> (2005) Repeated cocaine administration induces gene expression changes through the dopamine D1 receptors. Neuropsychopharmacology. 30 (8): 1443-54. Zhang, J. <i>et al.</i> (2006) c-Fos facilitates the acquisition and extinction of cocaine-induced persistent changes. J Neurosci. 26: 13287-96. Ruiz-De Diego, I. <i>et al.</i> (2015) Activation of DREAM (downstream regulatory element antagonistic modulator), a calcium-binding protein, reduces L-DOPA-induced dyskinesias in mice. Biol Psychiatry. 77 (2): 95-105. Hernández, L.F. <i>et al.</i> (2017) Striatal activation by optogenetics induces dyskinesias in the 6-hydroxydopamine rat model of Parkinson disease. Mov Disord. 32 (4): 530-537.
Further Reading	<ol style="list-style-type: none"> 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. Xu, M. <i>et al.</i> (1994) Dopamine D1 receptor mutant mice are deficient in striatal expression of dynorphin and in dopamine-mediated behavioral responses. Cell. 79 (4): 729-42. Drake, C.T. <i>et al.</i> (1994) Dynorphin opioids present in dentate granule cells may function as retrograde inhibitory neurotransmitters. J Neurosci. 14 (6): 3736-50.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #20362 available at: https://www.bio-rad-antibodies.com/SDS/AHP378 20362
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M416255:230221'

Printed on 19 Jan 2024