

Datasheet: AHP378

**BATCH NUMBER 170859**

<b>Description:</b>	RABBIT ANTI LEUMORPHIN
<b>Specificity:</b>	LEUMORPHIN
<b>Other names:</b>	DYNORPHIN B-29
<b>Format:</b>	Serum
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			1/20000
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 (NaN<sub>3</sub>)

<b>Immunogen</b>	Leumorphin: Arg-Ser-Gln-Glu-Asn-Pro-Asn-Thr-Tyr-Ser-Glu-Asp-Leu-Asp-Val (rat 14-28)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P06300</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">29190</a> Pdyn    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2283688
<b>Specificity</b>	<p><b>Rabbit anti Leumorphin antibody</b> 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 (<a href="#">Neal &amp; Newman 1989</a>). Leumorphin has been reported to exert anti-apoptotic effects in rat <a href="#">PC12</a> pheochromocytoma cells (<a href="#">Lee et al. 2005</a>).</p> <p>Rabbit anti leumorphin has been used successfully to detect leumorphin in murine brain using immunohistochemistry on cryostat sections. (<a href="#">Zhang et al.2005</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>Zhang, D. <i>et al.</i> (2005) Repeated cocaine administration induces gene expression changes through the dopamine D1 receptors. <a href="#">Neuropsychopharmacology. 30 (8): 1443-54.</a></li> <li>Zhang, J. <i>et al.</i> (2006) c-Fos facilitates the acquisition and extinction of cocaine-induced persistent changes. <a href="#">J Neurosci. 26: 13287-96.</a></li> <li>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. <a href="#">Biol Psychiatry. 77 (2): 95-105.</a></li> <li>Hernández, L.F. <i>et al.</i> (2017) Striatal activation by optogenetics induces dyskinesias in the 6-hydroxydopamine rat model of Parkinson disease. <a href="#">Mov Disord. 32 (4): 530-537.</a></li> </ol>
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>NealCr, J.r. &amp; 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. <a href="#">J Comp Neurol. 288 (3): 353-86.</a></li> <li>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. <a href="#">Cell. 79 (4): 729-42.</a></li> <li>Drake, C.T. <i>et al.</i> (1994) Dynorphin opioids present in dentate granule cells may function as retrograde inhibitory neurotransmitters. <a href="#">J Neurosci. 14 (6): 3736-50.</a></li> </ol>
<b>Storage</b>	<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>

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

### Recommended Secondary Antibodies

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

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

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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