

Datasheet: AHP378

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

UniProt:

[P06300](#) [Related reagents](#)

Entrez Gene:

[29190](#) Pdyn [Related reagents](#)

RRID AB_2283688

Specificity

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](#)).

Rabbit anti leumorphin has been used successfully to detect leumorphin in murine brain using immunohistochemistry on cryostat sections. ([Zhang et al.2005](#)).

References

1. Zhang, D. *et al.* (2005) Repeated cocaine administration induces gene expression changes through the dopamine D1 receptors. [Neuropsychopharmacology. 30 \(8\): 1443-54.](#)
 2. Zhang, J. *et al.* (2006) c-Fos facilitates the acquisition and extinction of cocaine-induced persistent changes. [J Neurosci. 26: 13287-96.](#)
 3. Ruiz-De Diego, I. *et al.* (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.](#)
 4. Hernández, L.F. *et al.* (2017) Striatal activation by optogenetics induces dyskinesias in the 6-hydroxydopamine rat model of Parkinson disease. [Mov Disord. 32 \(4\): 530-537.](#)
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Further Reading

1. 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.](#)
 2. Xu, M. *et al.* (1994) Dopamine D1 receptor mutant mice are deficient in striatal expression of dynorphin and in dopamine-mediated behavioral responses. [Cell. 79 \(4\): 729-42.](#)
 3. Drake, C.T. *et al.* (1994) Dynorphin opioids present in dentate granule cells may function as retrograde inhibitory neurotransmitters. [J Neurosci. 14 \(6\): 3736-50.](#)
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Storage

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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/AHP378>
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Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

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

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

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

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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](https://www.bio-rad-antibodies.com/datasheets)

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