

Datasheet: AHP378

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|----------------------|------------------------|
| 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.

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.

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide
Stabilisers 1% Bovine Serum Albumin

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:

Specificity **Rabbit anti Leuomorphin antibody** recognizes rat leuomorphin, also known as dynorphin B29. Leuomorphin is a 28 amino acid opioid peptide resulting from cleavage of proenkephalin-B. Leuomorphin positive cells are found in the paraventricular, supraoptic nucleus and fibres in the lateral hypothalamus of colchicine treated rat brain ([Neal & Newman 1989](#)). Leuomorphin has been reported to exert anti-apoptotic effects in rat [PC12](#) pheochromocytoma cells ([Lee et al. 2005](#)).

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

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- References**
1. 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.](#)
 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. NealCr, J.r. & Newman, S.W. (1989) Prodorphin 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 prodorphin precursor molecule. [J Comp Neurol. 288 \(3\): 353-86.](#)
 4. Zhang, D. *et al.* (2005) Repeated cocaine administration induces gene expression changes through the dopamine D1 receptors. [Neuropsychopharmacology. 30 \(8\): 1443-54.](#)
 5. Zhang, J. *et al.* (2006) c-Fos facilitates the acquisition and extinction of cocaine-induced persistent changes. [J Neurosci. 26: 13287-96.](#)
 6. 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.](#)
 7. FHernández, L. *et al.* (2017) Striatal activation by optogenetics induces dyskinesias in the 6-hydroxydopamine rat model of Parkinson disease. [Mov Disord. 32 \(4\): 530-537.](#)

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted. 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 #10041 available at: 10041: <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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