

Datasheet: 4140-0355

Description:	MOUSE ANTI LEU-ENKEPHALIN
Specificity:	LEU-ENKEPHALIN
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	NOC.1
Isotype:	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
Immunohistology - Frozen	▪			1/100 - 1/400
Radioimmunoassays	▪			

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

Species Cross Reactivity

Reacts with: Pig
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Tissue Culture Supernatant - liquid

Preservative Stabilisers

0.05% Thiomersal

Immunogen

Leu⁵-enkephalin conjugated to bovine serum albumin..

External Database Links

UniProt:

[P01210](#) [Related reagents](#)

Entrez Gene:

[5179](#) PENK [Related reagents](#)

Specificity

Mouse anti Human Leu⁵-enkephalin antibody, clone NOC.1 recognizes both Met⁵- and Leu⁵-enkephalin, secreted peptides which mimic the effect of opiate drugs. Mouse anti Human Leu⁵-enkephalin antibody, clone NOC.1 recognizes well established enkephalin immunoreactive sites, but does not bind to areas known to contain beta-endorphin or dynorphin in IHC.

Cross reactivity with Met⁵-enkephalin and lack of reactivity with the peptide Gly-Gly-Phe-Leu and

other related peptides by inhibition of radiolabelled Leu⁵-enkephalin binding is noted ([Andersson et al. 1995](#)).

References

1. Cuello, A. C. *et al.* (1984) Characterization and immunocytochemical application of monoclonal antibodies against enkephalins [J Histochem Cytochem 32: 947-957](#)
2. Kaleczyc, J. *et al.* (2002) Distribution, immunohistochemical characteristics and nerve pathways of primary sensory neurons supplying the porcine vas deferens. [Cell Tissue Res. 310: 9-17.](#)
3. Bulc, M. *et al.* (2014) Immunohistochemical distribution of cocaine and amphetamine regulatory peptide-like immunoreactive (CART-LI) nerve fibers in the circular muscle layer and their relationship to other peptides in the human caecum. [Acta Histochem. 116: 1029-36.](#)
4. Gańko, M. & Całka, J. (2014) Localization and chemical coding of the dorsal motor vagal nucleus (DMX) neurons projecting to the porcine stomach prepyloric area in the physiological state and after stomach partial resection. [J Mol Neurosci. 52 \(1\): 90-100.](#)
5. Sienkiewicz, W. *et al.* (2010) Immunohistochemical characterization of neurones in the hypoglossal nucleus of the pig. [Anat Histol Embryol. 39 \(2\): 152-9.](#)
6. Palus, K. & Całka, J. (2015) Alterations of neurochemical expression of the coeliac-superior mesenteric ganglion complex (CSMG) neurons supplying the prepyloric region of the porcine stomach following partial stomach resection. [J Chem Neuroanat. 72: 25-33.](#)
7. Gańko, M. & Całka, J. (2014) Prolonged acetylsalicylic-acid-supplementation-induced gastritis affects the chemical coding of the stomach innervating vagal efferent neurons in the porcine dorsal motor vagal nucleus (DMX). [J Mol Neurosci. 54 \(2\): 188-98.](#)

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
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 #10099 available at:
10099: <https://www.bio-rad-antibodies.com/uploads/MSDS/10099.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Human Anti Mouse IgG1 (HCA036...) [HRP](#)
Human Anti Mouse IgG2b (HCA038...) [FITC](#), [HRP](#)
Human Anti Mouse IgG3 (HCA039...) [FITC](#), [HRP](#), [RPE](#)

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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