



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti β -Endorphin

β -Endorphin is a 31 amino acid endogenous opioid neuropeptide that is produced in certain neurons within both the central and the peripheral nervous system. It is known to be one of the three endorphins that are produced in humans, together with α -Endorphin and γ -Endorphin, and it primarily acts in the body to reduce stress and maintain homeostasis.

This antibody was generated by immunization of rabbits with β -Endorphin coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4044 (Lot A0496)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Rat
Quantity:	400 μ g
Format:	Protein A affinity purified from antiserum, lyophilized. This stock solution contains 2mg/ml IgG, phosphate buffered saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative. Reconstitute by adding 0.2ml of distilled water.
Stability and Storage:	Original vial: 1 year at 4° - 8°C from date of purchase. Stock solution and aliquots thereof: 1 year at -20°C. Avoid freeze-thaw cycles.
Immunogen:	Synthetic peptide H-Tyr-Gly-Gly-Phe-Met-Thr-Ser-Glu-Lys-Ser-Gln-Thr-Pro-Leu-Val-Thr-Leu-Phe-Lys-Asn-Ala-Ile-Ile-Lys-Asn-Ala-Tyr-Lys-Lys-Gly-Glu-OH coupled to carrier protein.
Protein database:	<u>rat-P01194</u>

Cross-Reactivity:

PEPTIDE	%
β-Endorphin (rat)	100
β-Endorphin (porcine)	100
β-Endorphin (equine)	100
β-Endorphin (camel, ovine, bovine)	100
α-Endorphin	100
γ-Endorphin	60
β-Endorphin (human)	40
ACTH (human)	0
Met-Enkephalin	0
α-MSH	0
PACAP-38 (human, mouse, ovine, porcine, rat)	0

Applications:

Tested in ELISA against β-Endorphin and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:800); pretreatment with Proteinase K for antigen retrieval is recommended

Optimal dilutions should be determined by the end user

Please see www.bma.ch for protocols and general information

Related Products:

S-1170: ELISA high sensitivity for extracted samples

S-1264: ELISA extraction-free for rat serum and plasma samples

T-4045: Rabbit anti β-Endorphin, neat antiserum (rt)

T-4043: Rabbit anti β-Endorphin, diluted antiserum (rt)

T-4041: Rabbit anti β-Endorphin, neat antiserum (hu)

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.