



BMA BIOMEDICALS



Peninsula Laboratories

Rabbit anti Dynorphin A (1-10) amide

Dynorphins are a class of opioid peptides. When their precursor Proenkephalin-B is cleaved during processing, residues 207-223 (Dynorphin A) and 226-238 (Rimorphin, Dynorphin B), among others, are released. Dynorphin A (1-13) is conserved between species.

Dynorphins are widely distributed in the central nervous system, with highest concentrations in the hypothalamus, medulla, pons, midbrain and spinal cord, where they are also produced. Dynorphins are stored in large, dense core vesicles, characteristic of opioid peptide storage.

Dynorphins exert their effects mainly through the κ -opioid receptor (KOR), a G-protein-coupled receptor. Dynorphins are important for maintaining homeostasis through appetite control, circadian rhythms and body temperature regulation.

This antibody was generated by immunization of rabbits with Dynorphin A (1-10) amide coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4283 (Lot A03397)
Clonality:	Polyclonal
Host species:	Rabbit IgG
Reactivity:	Human, mouse, rat, porcine, bovine
Quantity:	400µg
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-Leu-Arg-Arg-Ile-Arg-Pro-NH ₂ coupled to carrier protein.
Protein database:	<u>human-P01213</u> , <u>mouse-O35417</u> , <u>rat-P06300</u> , <u>porcine-P01214</u> , <u>bovine-Q95104</u>

Cross-Reactivity:

PEPTIDE	%
Dynorphin A (1-10) amide	100
Dynorphin A	<0.01
Dynorphin A (1-13)	0
Dynorphin A (1-12)	0
Dynorphin A (1-11)	<0.01
Dynorphin A (1-10)	0.02
Dynorphin A (1-9)	0
Dynorphin A (1-8)	0
Dynorphin A (1-7)	0
Dynorphin A (1-6)	0
Leu-Enkephalin	0

Applications:

Tested in ELISA against Dynorphin A (1-10) amide and in immunohistochemistry (IHC). Other applications like FACS and Western blot may work as well.

Approximate working dilution for IHC:

Paraffin sections: (1:1000); 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-1536: ELISA high sensitivity for extracted samples
T-4278: Rabbit anti Dynorphin A (1-13), diluted antiserum
T-4279: Rabbit anti Dynorphin A (1-13), purified antiserum
T-4280: Rabbit anti Dynorphin A (1-13), neat antiserum
T-4875: Rabbit anti Dynorphin A (3-14), neat antiserum
T-4283: Rabbit anti Dynorphin A (1-10), purified antiserum

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