BMA BIOMEDICALS

Peninsula Laboratories

Rabbit anti Dynorphin B (Rimorphin)

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

Dynorphins contain a high proportion of basic and hydrophobic residues. They 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 peptides storage.

Dynorphins exert their effects primarily through the κ-opioid receptor (KOR), a G-protein-coupled receptor. They are part of the complex molecular changes in the brain leading to cocaine addiction. Dynorphins are important in maintaining homeostasis through appetite control, circadian rhythms and the regulation of body temperature. However, Dynorphin derivatives are generally considered to be of little clinical use because of their short duration of action.

This antibody was generated by immunization of rabbits with Dynorphin B coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Catalog Number:	T-4276 (Lot A18PO24052)
Clonality:	Polyclonal
Host species:	Rabbit
Reactivity:	Human
Quantity:	50 µl
Format:	Neat undiluted antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 50 µl distilled water. This will give the equivalent of undiluted antiserum.
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-Gln-Phe-Lys-Val-Val-Thr-OH coupled to carrier protein.
Protein database:	n/a

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Cross-Reactivity:

Peptide:	%:
Dynorphin A	100
Dynorphin A (1-13)	0.43
Dynorphin A (1-8)	0
Dynorphin B	0
α-Neoendorphin	0
β-Endorphin (human)	0
Leu-Enkephalin	0

Applications:

Tested in immunohistochemistry (IHC) and ELISA against Dynorphin A (1-8). Other applications like FACS or Western Blot may work as well.
Optimal dilutions should be determined by the end user.

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

Approximate working dilution for IHC:
Frozen sections: not tested yet.
Paraffin sections: 1:500; recommended Proteinase K pre-treatment.

Related Products:

S-1203: Dynorphin A ELISA, high sensitivity for extracted samples
S-1204: Dynorphin A (1-8) ELISA, high sensitivity for extracted samples
S-1429: Dynorphin B ELISA, high sensitivity for extracted samples
S-1430: Dynorphin A (1-10) amide ELISA, high sensitivity for extracted samples
S-1534: Dynorphin A (1-13) ELISA, high sensitivity for extracted samples
S-1536: Dynorphin A (3-14) ELISA, high sensitivity for extracted samples
T-4267: Dynorphin A, purified rabbit IgG
T-4271: Dynorphin A (1-8), purified rabbit IgG
T-4272: Dynorphin A (1-8), neat rabbit antiserum
T-4275: Dynorphin B, purified rabbit IgG
T-4279: Dynorphin A (1-13), purified rabbit IgG
T-4280: Dynorphin A (1-13), neat rabbit antiserum
T-4283: Dynorphin A (1-10) amide, purified rabbit IgG
T-4284: Dynorphin A (1-10) amide, neat rabbit antiserum
T-4875: Dynorphin A (3-14) neat rabbit antiserum
T-5032: Dynorphin B, diluted guinea pig antiserum
T-5033: Dynorphin B, neat guinea pig antiserum

This product contains no preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.

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