



BMA BIOMEDICALS



Peninsula Laboratories

T-4278

Rabbit anti Dynorphin A (1-8)

Dynorphin is a 17-amino acid opioid peptide found in the mammalian central nervous system, including hypothalamus, striatum, hippocampus, and spinal cord. It has a strong affinity for opiate receptors and it arises from the precursor protein prodynorphin, which is cleaved during processing by proprotein convertase 2 (PC2), releasing multiple active peptides like dynorphin A, dynorphin B, and α/β -neoendorphin. Dynorphin A (1–8) is a truncated form of dynorphin A. It is an agonist at the mu-, kappa-, and delta-opioid receptors and it has the highest binding affinity for the kappa-opioid receptor.

This antibody was generated by immunization of rabbits with Dynorphin A (1-8) coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

Lot number:	009303-5
Host species:	Rabbit IgG
Quantity:	50ml
Format:	This polyclonal antibody is supplied as a lyophilized powder. The powder should be rehydrated with 50ml of RIA buffer. Upon reconstitution to 50ml total volume, the solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN ₃ , and 0.1% Triton X-100. Store at 4° - 8°C. This should ensure antibody stability for approximately one month.
Stability:	Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below.
Applications:	This antibody has been tested and validated in ELISA against Dynorphin A (1-8). Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. Please see www.bma.ch for protocols and general information.
Immunogen:	Synthetic peptide H-Tyr-Gly-Gly-Phe-Leu-Arg-Arg-Ile-OH coupled to carrier protein.

Cross-Reactivity:

PEPTIDE	%
Dynorphin A (1-8)	100
Prodynorphin (209-240) (porcine)	<0.01
Dynorphin A	<0.01
Dynorphin A (1-13)	<0.01
Dynorphin B	0
β -Endorphin (porcine)	0
Met-Enkephalin	0
α -Neoendorphin	0
Leu-Enkephalin-Arg	0

Related Products: S-1203: ELISA, high sensitivity for extracted samples
T-4272: anti Dynorphin A (1-8), neat antiserum
T-4271: anti Dynorphin A (1-8), purified IgG

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.

T-4270

diluted antiserum

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