



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4039

### Rabbit anti $\beta$ -Endorphin (human)

$\beta$ -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  $\alpha$ -Endorphin and  $\gamma$ -Endorphin, and it primarily acts in the body to reduce stress and maintain homeostasis.

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

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	034709-4
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	50ml
<b>Format:</b>	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 <sub>3</sub> , and 0.1% Triton X-100. Store at 4° - 8°C. This should ensure antibody stability for approximately one month.
<b>Stability:</b>	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.
<b>Applications:</b>	This antibody has been tested and validated in ELISA against $\beta$ -Endorphin. Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Immunogen:</b>	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.

#### Cross-Reactivity:

PEPTIDE	%
$\beta$ -Endorphin (human)	100
$\beta$ -Endorphin (equine)	100
$\beta$ -Endorphin (porcine)	100
$\beta$ -Lipotropin (human)	100
$\beta$ -Endorphin (1-27) (human)	92
$\beta$ -Endorphin (rat)	80
Ac- $\beta$ -Endorphin (human)	70
Ac- $\beta$ -Endorphin (1-27) (human)	50
$\beta$ -Endorphin (6-31) (human)	43
$\beta$ -Endorphin (camel, bovine, mouse, ovine)	39
$\beta$ -Endorphin (1-26) (human)	37
Ac- $\beta$ -Endorphin (1-26) (human)	30
$\gamma$ -Endorphin	0
$\alpha$ -Endorphin	0
Met-Enkephalin	0
$\alpha$ -MSH	0
ACTH (1-39) (human)	0
Dynorphin A	0

Related Products: S-1134: ELISA, high sensitivity for extracted samples (hu)  
S-1240: ELISA, extraction-free for human serum and plasma samples  
T-4041: anti  $\beta$ -Endorphin (hu), neat antiserum, host: rabbit  
T-4040: anti  $\beta$ -Endorphin (hu), purified IgG, host: rabbit

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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.

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diluted antiserum

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