



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4044

### Rabbin anti $\beta$ -Endorphin (rat)

$\beta$ -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>	A04963
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	400 $\mu$ g
<b>Format:</b>	Protein A affinity purified from antiserum, lyophilized, packaged under nitrogen. Reconstitute by adding 0.2ml distilled water. This stock solution contains 2mg/ml IgG, phosphate buffer saline pH 7.4 (PBS), and 0.02% (w/v) Thimerosal as a preservative.
<b>Stability:</b>	Original vial: at least one year at 4 $^{\circ}$ - 8 $^{\circ}$ C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20 $^{\circ}$ 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:**

<b>PEPTIDE:</b>	<b>%:</b>
$\beta$ -Endorphin (rat)	100
$\beta$ -Endorphin (porcine)	100
$\beta$ -Endorphin (equine)	100
$\beta$ -Endorphin (camel, ovine, bovine)	100
$\alpha$ -Endorphin	100
$\gamma$ -Endorphin	60
$\beta$ -Endorphin (human)	40
ACTH (human)	0
Met-Enkephalin	0
$\alpha$ -MSH	0
PACAP-38 (human, mouse, ovine, porcine, rat)	0

Related Products: S-1170: ELISA, high sensitivity for extracted samples (rt)  
S-1264: ELISA, extraction-free for rat serum and plasma samples  
T-4045: anti  $\beta$ -Endorphin (rt), neat antiserum, host: rabbit  
T-4043: anti  $\beta$ -Endorphin (rt), diluted antiserum, 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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rabbit IgG - rt

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