



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4000

### Rabbit anti Adrenocorticotrophic Hormone (1-39) (mouse, rat)

Adrenocorticotrophic Hormone (ACTH) is a 39 amino acid peptide hormone produced and secreted by cells of the anterior pituitary gland. It is an important component in therapeutic and diagnostic procedures. This hormone is central to the hypothalamic-pituitary-adrenal axis, a major neuroendocrine system that controls reactions to stress and regulates many body processes, including digestion, the immune system, mood and emotions, and energy metabolism.

This antibody was generated by immunization of rabbits with Adrenocorticotrophic Hormone (1-39) coupled to a carrier protein.

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A06006
<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 Adrenocorticotrophic Hormone (1-39). 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-Ser-Tyr-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro-Asn-Val-Ala-Glu-Asn-Glu-Ser-Ala-Glu-Ala-Phe-Pro-Leu-Glu-Phe-OH (Disulfide bond) coupled to carrier protein.

**Cross-Reactivity:**

<b>PEPTIDE</b>	<b>%</b>
ACTH (1-39) (mouse, rat)	100
ACTH (1-39) (human)	100
ACTH 18-39 (human)	100
ACTH (1-24) (human, rat)	0.01
ACTH (7-38) (human)	0
$\alpha$ -MSH	0
LHRH	0
PACAP (1-38) amide (human, ovine, rat)	0
$\beta$ -Endorphin (rat)	0

Related Products: T-4002: anti ACTH (1-39), neat antiserum  
T-4001: anti ACTH (1-39), purified IgG  
S-1397: ELISA, extraction-free for rat serum and plasma samples  
S-1130: ELISA, high sensitivity for extracted samples, ACTH (1-39)  
S-1467: ELISA, extraction-free for mouse serum and plasma samples

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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.

T-4000

diluted antiserum – ms, rt

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