



BMA BIOMEDICALS



Peninsula Laboratories

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## T-4001

### 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>	A11754
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	400µg
<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° - 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)	0.01
ACTH (7-38) (human)	0
$\alpha$ -MSH	0
LH-RH	0
PACAP-38 (human, mouse, ovine, porcine, rat)	0
$\beta$ -Endorphin (rat)	0

Related Products: T-4002: anti ACTH (1-39), neat antiserum  
T-4000: anti ACTH (1-39), diluted antiserum  
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.

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rabbit IgG – ms, rt

17.8.2020