



BMA BIOMEDICALS



Peninsula Laboratories

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## S-1379

### Adrenocorticotrophic Hormone (1-39) (mouse, rat) ELISA

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 ELISA was developed with serum from rabbits immunized with Adrenocorticotrophic Hormone (1-39) coupled to a carrier protein.

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#### TECHNICAL AND ANALYTICAL CHARACTERISTICS

<b>Lot number:</b>	A17853
<b>Host species:</b>	Rabbit IgG
<b>Quantity:</b>	96 tests
<b>Format:</b>	Extraction-free kit for rat serum or plasma (EIAS type).
<b>Shelf-life:</b>	One year from production date. Store refrigerated at 4° - 8°C.
<b>Applications:</b>	This ELISA has been validated with the included reagents. It is intended to be used with samples of rat origin (original protocol V, Ab1hr.Std2hr.BtON). For research use only. Please see <a href="http://www.bma.ch">www.bma.ch</a> for protocols and general information.
<b>Range:</b>	0 - 25ng/ml
<b>Average IC50:</b>	4ng/ml
<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 coupled to carrier protein.

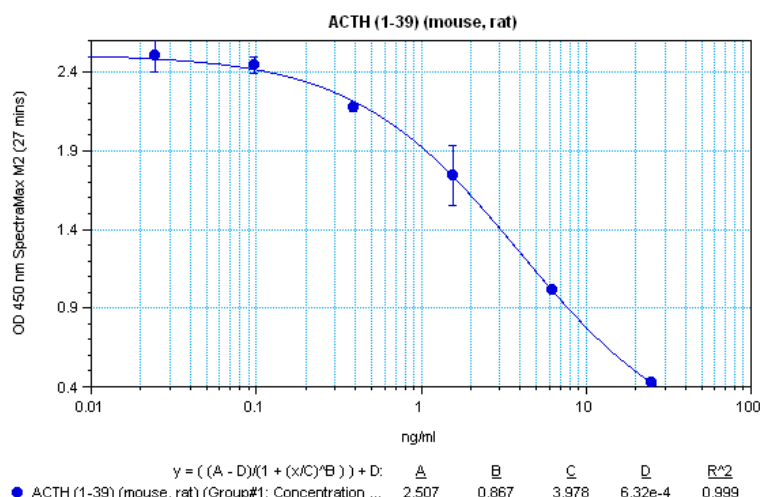
#### Cross-Reactivity:

PEPTIDE:	%:
ACTH (1-39) (mouse, rat)	100
ACTH (1-39) (human)	100
ACTH (1-24) (human, rat)	100
ACTH (7-38) (human)	31.2
ACTH (18-39) (human)	0
α-MSH	0

## Cross-Reactivity (continued):

PEPTIDE:	%:
LH-RH	0
PACAP-38 (human, mouse, ovine, porcine, rat)	0
β-Endorphin (rat)	0

Typical titration curve of Adrenocorticotrophic Hormone (1-39) in a competitive ELISA with this antibody:



Suggested Preparation of Standards		
	ng/ml	Range: 0.02 to 25ng/ml
<b>Stock</b>	1000	
<b>S1</b>	25.00	Add 25µl Stock + 975µl diluent
<b>S2</b>	6.25	Add 200µl S1 + 600µl diluent
<b>S3</b>	1.56	Add 200µl S2 + 600µl diluent
<b>S4</b>	0.39	Add 200µl S3 + 600µl diluent
<b>S5</b>	0.10	Add 200µl S4 + 600µl diluent
<b>S6</b>	0.02	Add 200µl S5 + 600µl diluent
<b>S0</b>	0.00	500µl diluent

Related Products: T-4002: anti ACTH (1-39) (ms, rt), neat antiserum, host: rabbit  
 T-4001: anti ACTH (1-39) (ms, rt), purified IgG, host: rabbit  
 T-4000: anti ACTH (1-39) (ms, rt), diluted antiserum, host: rabbit  
 S-1130: ELISA, high sensitivity for extracted samples, ACTH (1-39)  
 S-1467: ELISA, extraction-free for mouse serum and plasma samples

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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EIAS – ms, rt

17.8.2020