



BMA BIOMEDICALS



Peninsula Laboratories

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.

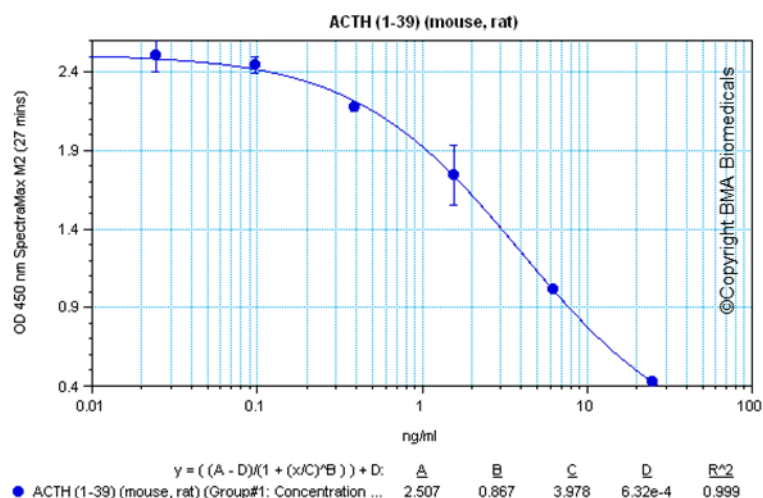
TECHNICAL AND ANALYTICAL CHARACTERISTICS

Product number:	S-1379 (Lot A17853)
Host species:	Rabbit IgG
Quantity:	96 tests
Format:	Extraction-free kit for rat serum or plasma (EIAS type).
Shelf-life:	One year from date of purchase. Store refrigerated at 4° - 8°C.
Applications:	This ELISA has been validated with the included reagents. It is intended to be used with samples of rat origin, following protocol V. Please see www.bma.ch for protocols and general information.
Range:	0 - 25 ng/ml
Average IC₅₀:	4.0 ng/ml
Immunogen:	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.
Protein database:	mouse-, rat-

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

Typical titration curve of Orexin A in a competitive ELISA with this antibody:



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

Related Products:

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

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Not for diagnostic or therapeutic applications.