

Product datasheet for **AM32066PU-N**

ACTH (POMC) Mouse Monoclonal Antibody [Clone ID: 57]

Product data:

Product Type:	Primary Antibodies
Clone Name:	57
Applications:	ELISA, IHC
Recommended Dilution:	ELISA. Immunohistochemistry on Formalin Fixed Paraffin Sections: 1/100-1/200. Protein digestion pretreatment of paraffin sections e.g. trypsin or pronase is required.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Keyhole Limpet Haemocyanin conjugated Human ACTH (1-17)
Specificity:	Specific for Synacthen (1-24 ACTH). Reacts with ACTH (a.a. 1-17) and does not cross-react with CLIP (ACTH 17-39). It cross-reacts with Rat N-terminal ACTH.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	proopiomelanocortin
Database Link:	Entrez Gene 5443 Human P01189



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Background:

ACTH (Synacthen) which, as a synthetic analogue of naturally-occurring Adrenocorticotrophic Hormone, can be used to measure adrenal reserve and for the diagnosis of adrenal insufficiency by acute adrenocortical stimulation. ACTH, released from the anterior pituitary gland in response to corticotropin-releasing hormone from the hypothalamus, acts on the adrenal cortex to stimulate the production of corticosteroids such as cortisol, involved in the response to stress. Studies have shown that the administration of 1-24 ACTH increases blood pressure, believed to be attributed to an increase in ACTH-stimulated cortisol secretion, in association with increased cardiac output.

Synonyms:

Corticotropin, Adrenocorticotrophic hormone, POMC