

POMC Monoclonal Antibody (SPM501)

Catalog NumberMA5-16319

Product data sheet

Details		Species Reactivity	
Size	500 µL	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	Immunohistochemistry (Paraffin) (IHC (P))	Dilution *1:400
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	SPM501		
Immunogen	ACTH synthetic peptide.		
Conjugate	Unconjugated		
Form	Liquid		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

A suggested positive control is normal pituitary gland or pituitary adenoma.

Background/Target Information

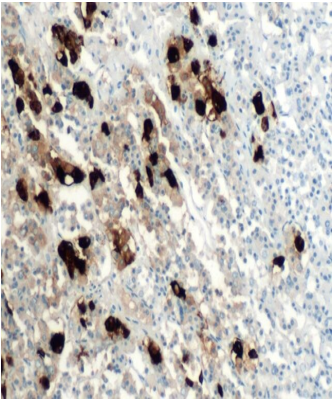
This gene encodes a polypeptide hormone precursor that undergoes extensive, tissue-specific, post-translational processing via cleavage by subtilisin-like enzymes known as prohormone convertases. There are eight potential cleavage sites within the polypeptide precursor and, depending on tissue type and the available convertases, processing may yield as many as ten biologically active peptides involved in diverse cellular functions. The encoded protein is synthesized mainly in corticotroph cells of the anterior pituitary where four cleavage sites are used; adrenocorticotrophin, essential for normal steroidogenesis and the maintenance of normal adrenal weight, and lipotropin beta are the major end products. In other tissues, including the hypothalamus, placenta, and epithelium, all cleavage sites may be used, giving rise to peptides with roles in pain and energy homeostasis, melanocyte stimulation, and immune modulation. These include several distinct melanotropins, lipotropins, and endorphins that are contained within the adrenocorticotrophin and beta-lipotropin peptides. Mutations in this gene have been associated with early onset obesity, adrenal insufficiency, and red hair pigmentation. Alternatively spliced transcript variants encoding the same protein have been described.

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**POMC Antibody (MA5-16319) in IHC**

Immunohistochemical analysis of Adrenocorticotrophic Hormone using anti-Adrenocorticotrophic Hormone Monoclonal Antibody (Product # MA5-16319) in Pituitary Cancer Tissue. The recommended dilution for this antibody in immunohistochemistry applications is 1:400.

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