

POMC Polyclonal Antibody

Catalog Number PA1-36035

Product data sheet

Details		Species Reactivity	
Size	250 µL	Species reactivity	Human, Mouse, Pig, Rat
Host/Isotope	Rabbit / IgG	Published species	Mouse
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	ELISA (ELISA)	Assay-dependent
Immunogen	Synthetic ACTH.	Immunohistochemistry (Frozen) (IHC (F))	1:100-1:200
Conjugate	Unconjugated	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:200
Form	Liquid	Published Applications	
Concentration	Conc. Not Determined	Immunohistochemistry (IHC)	See 1 publications below
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

\* 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.

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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PubMed References For POMC Polyclonal Antibody

1 Immunohistochemistry References

Species / Dilution	Summary
Mouse / 1:2,000	<p>PA1-36035 was used in immunohistochemistry to investigate the consequences of inactivation of AIP in a mouse model</p> <p>The American journal of pathology ( 2010; 177: 1969)</p> <p><b>"Mice with inactivation of aryl hydrocarbon receptor-interacting protein (Aip) display complete penetrance of pituitary adenomas with aberrant ARNT expression."</b></p> <p>Author(s):Raitila A,Lehtonen HJ,Arola J,Heliövaara E,Ahlsten M,Georgitsi M,Jalanko A,Paetau A,Aaltonen LA,Karhu A</p> <p>PubMed Article URL:<a href="http://dx.doi.org/10.2353/ajpath.2010.100138">http://dx.doi.org/10.2353/ajpath.2010.100138</a></p>

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