

Adrenocorticotropin(ACTH) rabbit pAb

Cat No.: ES18447

For research use only

Overview

Product Name Adrenocorticotropin(ACTH) rabbit pAb

Host species Rabbit
Applications IHC;IF;WB

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions IHC-p 1:50-200, WB 1:500-2000

Immunogen Synthesized peptide derived from human

Adrenocorticotropin(ACTH)

Specificity This antibody detects endogenous levels of human

Adrenocorticotropin(ACTH)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Adrenocorticotropin(ACTH)

Gene Name POMC

Cellular localization Secreted . Melanocyte-stimulating hormone alpha

and beta-endorphin are stored in separate granules in hypothalamic POMC neurons, suggesting that secretion may be under the control of different

regulatory mechanisms. .

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 57kD
Human Gene ID 5443
Human Swiss-Prot Number P01189

Alternative Names Pro-opiomelanocortin

(POMC;Corticotropin-lipotropin) [Cleaved into: NPP; Melanotropin gamma (Gamma-MSH); Potential peptide; Corticotropin (Adrenocorticotropic

hormone;ACTH); Melanotropin alpha (Alpha-MSH); Corticotropin-like intermediary peptide (CLIP); L



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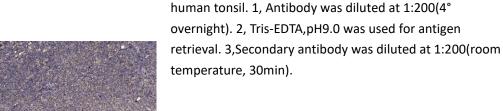
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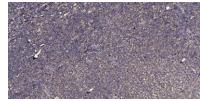


Background

This gene encodes a preproprotein 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 preproprotein 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. The

Immunohistochemical analysis of paraffin-embedded





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