

**Anti-ACTH (C-Terminal) Antibody**  
**Mouse Monoclonal Antibody**  
**Catalog # AH13442****Specification**

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**Anti-ACTH (C-Terminal) Antibody - Product Information**

Application	IHC-P, IF, FC, E
Primary Accession	<a href="#">P01189</a>
Other Accession	<a href="#">1897</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1
Calculated MW	29424

**Anti-ACTH (C-Terminal) Antibody - Additional Information****Gene ID** 5443**Other Names**

Adrenocorticotropin; alpha or beta or gamma Melanocyte Stimulating Hormone (MSH) or Melanotropin; beta-Endorphin; beta or gamma Lipotropin (LPH); CLIP; Met Enkephalin; POC; POMC

**Application Note**

IHC-P~N/A  
IF~1:50~200  
FC~1:10~50  
E~N/A

**Format**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Anti-ACTH (C-Terminal) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-ACTH (C-Terminal) Antibody - Protein Information****Name** POMC ([HGNC:9201](#))**Function**

Precursor protein of pituitary hormones that are involved in diverse physiological processes, including the regulation of energy balance, stress response, immune function and skin pigmentation. [Met-enkephalin]: Endogenous opiate.

**Cellular Location**

Secreted {ECO:0000250|UniProtKB:P01193}. Note=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 {ECO:0000250|UniProtKB:P01193}

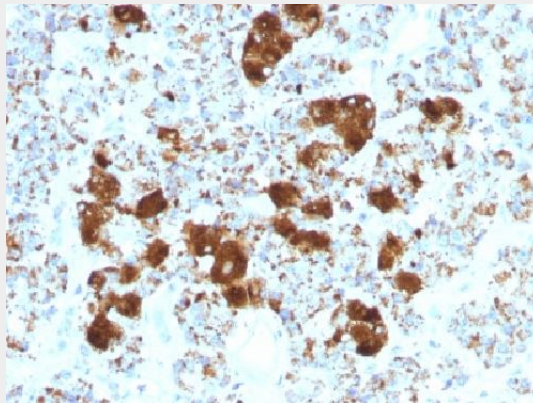
**Tissue Location**

ACTH and MSH are produced by the pituitary gland.

**Anti-ACTH (C-Terminal) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-ACTH (C-Terminal) Antibody - Images**

Formalin-fixed, paraffin-embedded Human Pituitary stained with ACTH Monoclonal Antibody (SPM501).

**Anti-ACTH (C-Terminal) Antibody - Background**

ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This MAb is specific to CLIP (aa25-39 of ACTH); does not react with Synacthen (aa1-24 of ACTH). POMC (pro-opiomelanocortin or corticotropin-lipotropin) is a 267 amino acid polypeptide hormone precursor that goes through extensive, tissue-specific posttranslational processing by convertases. POMC is cleaved into ten hormone chains named NPP, ACTH, alpha-MSH (Melanocyte Stimulating Hormone), beta-MSH, gamma-MSH, CLIP (corticotropin-like intermediary peptide), Lipotropin-beta, Lipotropin-gamma, beta-endorphin and Met-enkephalin. ACTH is also produced by cells of immune system (T-cells, B-cells, and macrophages) in response to stimuli associated with stress. Anti-ACTH is a useful marker in classification of pituitary tumors and the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.