

# POMC polyclonal antibody

Catalog # PAB8938

Size 100 ug

## Specification

|                         |                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Description     | Rabbit polyclonal antibody raised against synthetic peptide of POMC.                                                                                       |
| Immunogen               | A synthetic peptide corresponding to amino acids 138-176 of human POMC.                                                                                    |
| Sequence                | SYSMEHFRWGKPVGKKRRPVKVYPNGAEDESAEAFPLEF                                                                                                                    |
| Host                    | Rabbit                                                                                                                                                     |
| Reactivity              | Human, Mouse, Rat                                                                                                                                          |
| Form                    | Liquid                                                                                                                                                     |
| Quality Control Testing | Antibody Reactive Against Synthetic Peptide.                                                                                                               |
| Recommend Usage         | Western Blot (1:1000)<br>Immunoprecipitation (1:200)<br>Immunohistochemistry (1:250)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer          | In buffer containing 0.02% sodium azide                                                                                                                    |
| Storage Instruction     | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                         |
| Note                    | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                     |

## Applications

- Western Blot
- Immunohistochemistry
- Dot Blot

## Gene Info — POMC

**Entrez GeneID** [5443](#)

**Gene Name** POMC

**Gene Alias** ACTH, CLIP, LPH, MSH, NPP, POC

**Gene Description** proopiomelanocortin

**Omim ID** [176830 609830](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** 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. [provided by RefSeq]

**Other Designations** OTTHUMP00000119991|adrenocorticotrophic hormone|adrenocorticotropin|alpha-MSH|alpha-melanocyte-stimulating hormone|beta-LPH|beta-MSH|beta-endorphin|beta-melanocyte-stimulating hormone|corticotropin-like intermediary peptide|gamma-LPH|gamma-MSH|lipotropin b

## Publication Reference

- [Unilateral testicular tumour associated to congenital adrenal hyperplasia: Failure of specific tumoral molecular markers to discriminate between adrenal rest and leydigioma.](#)

Fenichel P, Bstandig B, Roger C, Chevallier D, Michels JF, Sadoul JL, Hieronimus S, Brucker-Davis F.

Annales D'endocrinologie 2008 Nov; 69(5):453.

- [The tissue-specific processing of pro-opiomelanocortin.](#)

Bicknell AB.

Journal of Neuroendocrinology 2008 Jun; 20(6):692.

Application: IHC, Rat, Rat pituitary

## Pathway

- [Adipocytokine signaling pathway](#)
- [Melanogenesis](#)
- [Neuroactive ligand-receptor interaction](#)

## Disease

- [Adenocarcinoma](#)
- [Alcoholism](#)
- [Anorexia Nervosa](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Body Weight](#)
- [Breast Neoplasms](#)
- [Bulimia](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)

- [Connective Tissue Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Disease Susceptibility](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Fatigue Syndrome](#)
- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hyperparathyroidism](#)
- [Infection](#)
- [Inflammation](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Microsatellite Instability](#)
- [Musculoskeletal Diseases](#)
- [NARP](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Pain](#)

- [Parkinson disease](#)
- [Polycystic Ovary Syndrome](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychophysiologic Disorders](#)
- [Puberty](#)
- [Skin Diseases](#)
- [Skin Neoplasms](#)
- [Somatoform Disorders](#)
- [Substance-Related Disorders](#)
- [Thinness](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Translocation](#)
- [Weight Loss](#)