

阿黑皮素原抗体

产品货号： mlR6942

英文名称： POMC

中文名称： 阿黑皮素原抗体

别名： ACTH; Adrenocorticotrophic hormone; Adrenocorticotropin; Adrenocorticotropin Hormone; Alpha Melanocyte Stimulating Hormone; Alpha MSH; Alpha-MSH; Beta Endorphin; Beta Lipotropin; Beta LPH; Beta Melanocyte Stimulating Hormone; Beta MSH; Beta-LPH; Beta-MSH; CLIP; COLI_HUMAN; Corticotropin Like Intermediary Peptide; Corticotropin lipotropin; Corticotropin lipotropin precursor; Corticotropin-lipotropin; Gamma MSH; Gamma-LPH; Gamma-MSH; Lipotropin Beta; Lipotropin Gamma; LPH; Melanotropin Alpha; Melanotropin; Melanotropin beta; Melanotropin gamma; Met Enkephalin; Met-enkephalin; MSH; NPP; POC; POMC; pro ACTH endorphin; Pro opiomelanocortin; Proopiomelanocortin; Proopiomelanocortin preproprotein.

研究领域： 肿瘤 细胞生物 神经生物学 信号转导 内分泌病

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Cow, Sheep,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 IF=1:50-200 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 29kDa

细胞定位： 分泌型蛋白

性状： Lyophilized or Liquid

浓度： 1mg/ml

免疫原： KLH conjugated synthetic peptide derived from human POMC:27-102/267

亚型： IgG

纯化方法： affinity purified by Protein A

储存液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed : PubMed

产品介绍 : 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, Jul 2008].

Function:

ACTH stimulates the adrenal glands to release cortisol.

MSH (melanocyte-stimulating hormone) increases the pigmentation of skin by increasing melanin production in melanocytes.

Beta-endorphin and Met-enkephalin are endogenous opiates.

Subcellular Location:

Secreted.

Tissue Specificity:

ACTH and MSH are produced by the pituitary gland.

Post-translational modifications:

Specific enzymatic cleavages at paired basic residues yield the different active peptides.

O-glycosylated; reducing sugar is probably N-acetylgalactosamine.

DISEASE:

Defects in POMC may be associated with susceptibility to obesity (OBESITY) [MIM:601665]. It is a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the result of excessive accumulation of body fat.

Defects in POMC are the cause of pro-opiomelanocortin deficiency (POMCD) [MIM:609734]. Affected individuals present early-onset obesity, adrenal insufficiency and red hair.

Similarity:

Belongs to the POMC family.

SWISS:

P01189

Gene ID:

5443

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

产品图片

