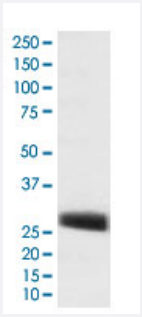
POMC monoclonal antibody, clone ADEC-16

Catalog # MAB22015 Size 100 uL

Applications



Western Blot

Western Blot analysis of POMC.

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic protein of human POMC.
Immunogen	A synthetic peptide corresponding to human POMC.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	A synthesized peptide derived from human POMC ACTH stimulates the adrenal glands to release co rtisol.
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunoprecipitation (1:50) Western Blot (1:500-2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).

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Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunoprecipitation
- Western Blot

  Western Blot analysis of POMC.

Gene Info — POMC

Entrez GeneID	5443
Protein Accession#	P01189
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, p ost-translational processing via cleavage by subtilisin-like enzymes known as prohormone convert ases. 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 activ e peptides involved in diverse cellular functions. The encoded protein is synthesized mainly in cort icotroph cells of the anterior pituitary where four cleavage sites are used; adrenocorticotrophin, es sential for normal steroidogenesis and the maintenance of normal adrenal weight, and lipotropin b eta are the major end products. In other tissues, including the hypothalamus, placenta, and epitheli um, all cleavage sites may be used, giving rise to peptides with roles in pain and energy homeost asis, melanocyte stimulation, and immune modulation. These include several distinct melanotropi ns, lipotropins, and endorphins that are contained within the adrenocorticotrophin and beta-lipotro pin peptides. Mutations in this gene have been associated with early onset obesity, adrenal insuffi ciency, and red hair pigmentation. Alternatively spliced transcript variants encoding the same prot ein have been described. [provided by RefSeq

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Other Designations	OTTHUMP00000119991|adrenocorticotropic 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

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

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- 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

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- 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

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