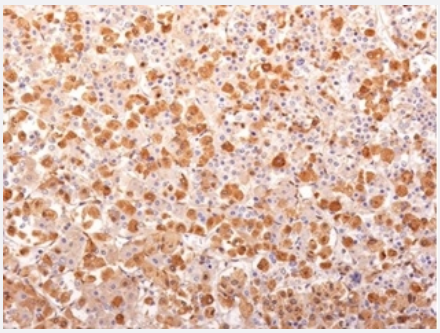
RecomAb™ Sm Size

POMC recombinant monoclonal antibody, clone r57

Catalog # RAB08792 Size 20 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human pituitary gland with POMC recombinant monoclonal antibody, clone r57 (Cat # RAB08792).

Specification

Product Description	Mouse recombinant monoclonal antibody raised against human POMC.
Antibody Species	Mouse
Immunogen	N-terminal fragment of human POMC conjugated to KLH.
Theoretical MW (kDa)	~5, ~30
Reactivity	Human
Specificity	This antibody is specific to synacthen (amino acids 1-24 of POMC); does not react with CLIP (amino acids 17-39 of POMC).
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa

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Recommend Usage	Flow Cytometry (0.5-1 ug/million cells) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.5-1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA and 0.05% azide)
Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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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

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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|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

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- 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

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- 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

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