

Adrenocorticotropin(ACTH) (ABT-ACTH) mouse mAb Ready to use

Catalog No :	YM6001R
Reactivity :	Human, Mouse
Applications :	IHC-p,IF(paraffin section)
Gene Name :	POMC
Protein Name :	Pro-opiomelanocortin (POMC) (Corticotropin-lipotropin) [Cleaved into: NPP; Melanotropin gamma (Gamma-MSH); Potential peptide; Corticotropin (Adrenocorticotropic hormone) (ACTH); Melanotropin alpha (AI
Human Gene Id :	5443
Human Swiss Prot No :	P01189
Immunogen :	Synthesized peptide derived from human Adrenocorticotropin(ACTH)
Specificity :	This antibody detects endogenous levels of human Adrenocorticotropin(ACTH). Heat-induced epitope retrieval (HIER) TRIS-EDTA of pH8.0 was highly recommended as antigen repair method in paraffin section
Formulation :	Liquid in PBS containing, 0.5% BSA and 0.02% sodium azide.
Source :	Mouse/IgG1, Kappa
Dilution :	Ready to use for IHC-p
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Storage Stability :	4°C/ 1 years
Cell Pathway :	Melanogenesis,Adipocytokine,
Background :	proopiomelanocortin(POMC) Homo sapiens This gene encodes a preproprotein 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 preproprotein 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. The

Function :

disease:Defects in POMC are the cause of pro-opiomelanocortin deficiency [MIM:609734]. Affected individuals present early-onset obesity, adrenal insufficiency and red hair.,disease:Defects in POMC may be associated with susceptibility to obesity [MIM:601665].,function:ACTH stimulates the adrenal glands to release cortisol.,function:Beta-endorphin and Met-enkephalin are endogenous opiates.,function:MSH (melanocyte-stimulating hormone) increases the pigmentation of skin by increasing melanin production in melanocytes.,online information:Melanocyte-stimulating hormone entry,PTM:O-glycosylated; reducing sugar is probably N-acetylgalactosamine.,PTM:Specific enzymatic cleavages at paired basic residues yield the different active peptides.,similarity:Belongs to the POMC family.,tissue specificity:ACTH and MSH are produced by the pituitary gland.,

Subcellular Location :

Cytoplasmic

Expression :

Pituitary,Thyroid,

Products Images