

Datasheet for ABIN7126805

Recombinant anti-POMC antibody (AA 162-176)[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	POMC
Binding Specificity:	AA 162-176
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This POMC antibody is un-conjugated
Application:	Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Synthetic peptide corresponding to (aa 162-176) of human ACTH (NGAEDESAEAFPLEF)
Isotype:	IgG1
Specificity:	ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This MAb is specific to Synacthen (aa1-24 of ACTH), does not react with CLIP (aa17-39 of ACTH). POMC (pro-opiomelanocortin or corticotropin-lipotropin) is a 267 amino acid polypeptide hormone precursor that goes through extensive, tissue-specific posttranslational processing by convertases. POMC is cleaved into ten hormone chains named NPP, ACTH, alpha-MSH (Melanocyte Stimulating Hormone), beta-MSH, gamma-MSH, CLIP (corticotropin-like intermediary peptide), Lipotropin-beta, Lipotropin-gamma, beta-endorphin and Met-enkephalin. ACTH is also produced by cells of immune system (T-cells, B-cells, and

Product Details

macrophages) in response to stimuli associated with stress. Anti-ACTH is a useful marker in classification of pituitary tumors and the study of pituitary disease. It reacts with ACTH-producing cells (corticotrophs). It also may react with other tumors (e.g. some small cell carcinomas of the lung) causing paraneoplastic syndromes by secreting ACTH.

Cross-Reactivity (Details): Human, Mouse and Rat. Expected to show a broad species reactivity.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

Target Details

Target: POMC

Alternative Name: POMC ([POMC Products](#))

Background: Adrenocorticotropin, alpha or beta or gamma Melanocyte Stimulating Hormone (MSH) or Melanotropin, beta-Endorphin, beta or gamma Lipotropin (LPH), CLIP, Met Enkephalin, POC, POMC, ACTH (Adrenocorticotrophic Hormone) (Pituitary Marker)
Cellular localisation: Cytoplasmic

Molecular Weight: ACTH is ~5kDa, and the POMC precursor is ~30kDa. The molecular weight of POMC depends upon isoform variation and post-translational modifications.

Gene ID: 5443, 1897

UniProt: [P01189](#)

Pathways: [Metabolism of Steroid Hormones and Vitamin D](#), [Peptide Hormone Metabolism](#), [Hormone Activity](#), [Feeding Behaviour](#)

Application Details

Application Notes: Known_Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.
Positive_Control: Human normal pituitary gland or pituitary tumor.

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

Handling

Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.
Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months