

Mouse ACTH (Adrenocorticotrophic Hormone) Monoclonal Antibody | anti-ACTH antibody

ACTH (Adrenocorticotrophic Hormone) (C-Terminal) (Pituitary Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214483	Mouse	Human. Others not known.	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

ACTH (Adrenocorticotrophic Hormone); Monoclonal Antibody; ACTH (Adrenocorticotrophic Hormone) (C-Terminal) (Pituitary Marker); Adrenocorticotropin; alpha or beta or gamma Melanocyte Stimulating Hormone (MSH) or Melanotropin; beta-Endorphin; beta or gamma Lipotropin (LPH); CLIP; Met Enkephalin; POC; POMC; anti-ACTH antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG1
Clone Number	SPM501
Specificity	ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This MAb is specific to CLIP (aa25-39 of ACTH); does not react with Synacthen (aa1-24 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 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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	267
Applicable Applications for anti-ACTH antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA
Immunogen	Synthetic peptide corresponding to aa25-39 of human ACTH (NGAEDESAEAFPLEF)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	2p23.3
Positive Control	Normal pituitary gland or pituitary tumor
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Pancreas stained with Cytochrome C Monoclonal Antibody (SPM389).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Human Pituitary stained with ACTH Monoclonal Antibody (SPM501).

ADDITIONAL INFORMATION

References	Hsu DW et. al. American Journal of Pathology, 1991, 138(4):897-909.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4505949
NCBI GeneID	5443
NCBI Accession #	NP_000930.1
NCBI GenBank Nucleotide #	NM_000939.3
UniProt Accession #	P01189; P78442; Q53T23; Q9UD39; Q9UD40
Molecular Weight	~5kDa; POMC precursor is ~30kDa
NCBI Official Full Name	pro-opiomelanocortin preproprotein
NCBI Official Synonym Full Names	proopiomelanocortin
NCBI Official Symbol	POMC
NCBI Official Synonym Symbols	LPH; MSH; NPP; POC; ACTH; CLIP; OBAIRH
NCBI Protein Information	pro-opiomelanocortin
UniProt Protein Name	Pro-opiomelanocortin
UniProt Gene Name	POMC
UniProt Synonym Gene Names	POMC; ACTH; Alpha-MSH; CLIP; Beta-MSH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/acth-adrenocorticotrophic-hormone-antibody-clone-spm501-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/214483>