Anti-ACTH Antibody (r57)

CATALOG NO: A1419-100

ALTERNATIVE NAMES: Adrenocorticotropin; alpha or beta or gamma Melanocyte Stimulating Hormone (MSH) or Melanotropin; beta-Endorphin; beta or gamma Lipotropin (LPH); CLIP; Met Enkephalin; POC; POMC

AMOUNT: 100 µg

IMMUNOGEN: N-terminal fragment of human ACTH conjugated to KLH

HOST/ISOTYPE: Mouse IgG1, kappa

CLONALITY: Monoclonal

CLONE: r57

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

SPECIES REACTIVITY: Human, Mouse and Rat

PURIFICATION: Protein A/G purification

FORM: Liquid

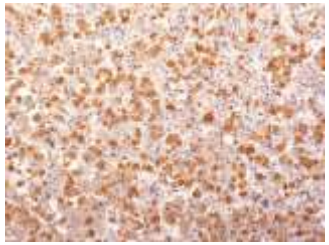
FORMULATION: Supplied in 10 mM PBS with 0.05% BSA & 0.05% azide

STORAGE CONDITIONS: Shipped at 4°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles

DESCRIPTION: ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This mAb is specific to CLIP (aa 25-39 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.

APPLICATION: ELISA
Flow Cytometry (0.5-1 ug/1X10^6 cells)
IF (0.5-1 ug/ml)
IHC (Formalin-fixed) (0.5-1 ug/ml for 30 minutes at RT)
(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



Formalin-fixed, paraffin-embedded Human Pituitary gland stained with ACTH Monoclonal Antibody (r57)

RELATED PRODUCTS:

- Anti-ACTH Antibody (SPM501) **(Cat. No. A1418)**
- Anti-Adiponectin Antibody (ADPN/1370) **(Cat. No. A1420)**
- Anti-Adipophilin Antibody (ADFP/1365) **(Cat. No. A1421)**
- Anti-Adipophilin Antibody (ADFP/1494) **(Cat. No. A1422)**
- Anti-AFP Antibody (C3) **(Cat. No. A1423)**
- Anti-ALDH1A1 Antibody (ALDH1A1/1381) **(Cat. No. A1424)**
- Anti-ALK Antibody (ALK/1503) **(Cat. No. A1425)**
- Anti-Alkaline Phosphatase Antibody (ALPL/597) **(Cat. No. A1426)**
- Anti-Alpha-1-Antitrypsin Antibody (AAT/1378) **(Cat. No. A1427)**

FOR RESEARCH USE ONLY! Not to be used on humans.

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