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36-2956: Anti-ACTH (Adrenocorticotrophic Hormone) (N-Terminal) (Pituitary Marker) Monoclonal Antibody(Clone: r57)

Clonality: Monoclonal

Clone Name: r57

Application: ELISA,IHC

Reactivity: Human, Mouse, Rat

 Gene :
 POMC

 Gene ID :
 5443

 Uniprot ID :
 P01189

Adrenocorticotropin; alpha or beta or gamma Melanocyte Stimulating Hormone (MSH) or

Alternative Name: Melanotropin; beta-Endorphin; beta or gamma Lipotropin (LPH); CLIP; Met Enkephalin; POC;

POMC

Isotype: Mouse IgG1, kappa

Immunogen Information: N-terminal fragment of human ACTH conjÂugated to KLH

Description

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 throµgh 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.

Product Info

Amount: 20 μg / 100 μg

Content: 200 µg/ml of recombinant MAb Purified by Protein A/G. Prepared in 10mM PBS with 0.05% BSA

& 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage condition : Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody

is stable for 24 months. Non-hazardous.

Application Note

ELISA (For coating, order Ab without BSA); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes),



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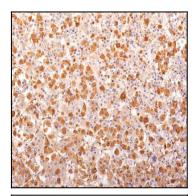


Fig. 1: Formalin-fixed, paraffin-embedded human Pituitary Gland stained with ACTH Mouse Recombinant Monoclonal Antibody (r57).

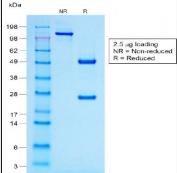


Fig. 2: SDS-PAGE Analysis Purified ACTH Mouse Recombinant Monoclonal Antibody (r57). Confirmation of Purity and Integrity of Antibody.