

Anti-ACTH (Adrenocorticotrophic Hormone) (N-Terminal) (Pituitary Marker) Monoclonal Antibody

Catalog Number: M00305

About POMC

ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This monoclonal antibody 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 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.

Overview

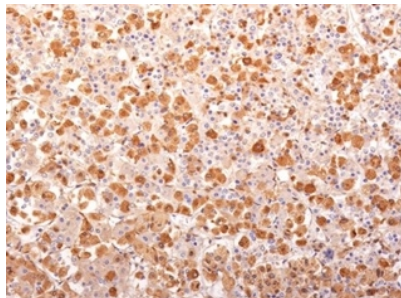
Product Name	Anti-ACTH (Adrenocorticotrophic Hormone) (N-Terminal) (Pituitary Marker) Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-ACTH (Adrenocorticotrophic Hormone) (N-Terminal) (Pituitary Marker) Monoclonal Antibody (Catalog # M00305). Tested in ELISA, IHC applications. This antibody reacts with Human, Mouse, Rat.
Conjugate	Biotin
Application	ELISA, IHC
Clonality	Monoclonal Clone: r57
Formulation	Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage Instructions	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. No MSDS required.
Host	Mouse
Uniprot ID	P01189

Technical Details

Immunogen	N-terminal fragment of human ACTH conjugated to KLH
Predicted Reactive Species	Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer
Isotype	IgG1, kappa

Form	Liquid
Concentration	Purified antibody with BSA and azide at 200ug/ml
Purification	200ug/ml of recombinant monoclonal antibody purified by Protein A/G.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>ELISA (For coating, order antibody without BSA)</p> <p>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)</p> <p>Optimal dilution for a specific application should be determined.</p>

Anti-ACTH (Adrenocorticotrophic Hormone) (N-Terminal) (Pituitary Marker) Monoclonal Antibody (M00305) Images



Formalin-fixed, paraffin-embedded human pituitary gland stained with Anti-ACTH Recombinant Mouse Monoclonal Antibody (r57).

1 Publications Citing This Product

1. PubMed ID: 25624795, Huo J, Liu J, Wang J, Zhang Y, Wang C, Yang Y, Sun W, Xu S. Neural Regen Res. 2012 Aug 5;7(22):1729-35. Doi: 10.3969/J.Issn.1673-5374.2012.22.008. Early Hyperbaric Oxygen Therapy Inhibits Aquaporin 4 And Adrenocorticotrophic Hormone Expression In T...

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