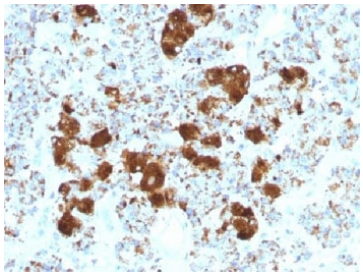
ACTH Antibody / CLIP [clone SPM501] (V3191)

Catalog No.	Formulation	Size
V3191-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3191-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3191SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	SPM501
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	5443
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT
Limitations	This ACTH antibody is available for research use only.



IHC testing of FFPE human pituitary gland with ACTH antibody (clone SPM501). Required HIER: steam sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min.

Description

ACTH (or Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This mAb is specific to CLIP (aa 25-39) and does not react with Synacthen (aa 1-24). 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 Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the ACTH antibody to be titered up or down for optimal performance.

Immunogen

Amino acids 25-39 (NGAEDESAEAFPLEF) of Adrenocorticotropic hormone (CLIP sequence) were used as the immunogen for this ACTH antibody.

Storage

Store the ACTH antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (1)

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