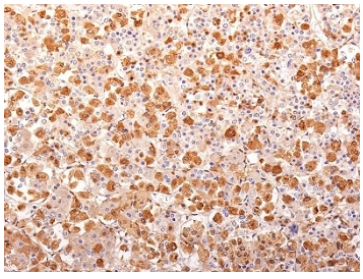
ACTH Antibody Cocktail / Synacthen [clone AH26 + 57] (V3176)

Catalog No.	Formulation	Size
V3176-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3176-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3176SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1 + IgG1
Clone Name	AH26 + 57
Purity	Protein G affinity chromatography
UniProt	P01189
Localization	Cytoplasm
Applications	Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This ACTH antibody cocktail is available for research use only.



IHC: Formalin-fixed, paraffin-embedded human pituitary gland stained with ACTH antibody (AH26 + 57). Required HIER: boil tissue sections in 10mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.

Description

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

Application Notes

The optimal dilution of the ACTH antibody for each application should be determined by the researcher.

Immunogen

Amino acids 1-24 (AH26) and an N-terminal peptide from human ACTH (57) were used as the immunogens for this ACTH antibody cocktail.

Storage

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

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