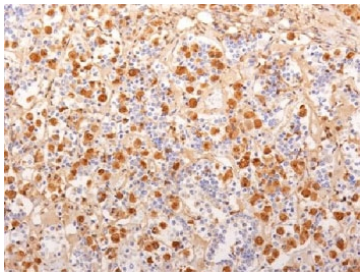
ACTH Antibody / Synacthen [clone 2F6] (V2232)

Catalog No.	Formulation	Size
V2232-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2232-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2232SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

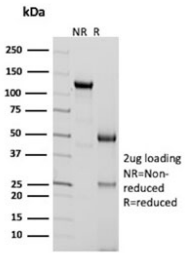
Citations (2)

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	2F6
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	5443
Localization	Cytoplasmic
Applications	Flow cytometry: 0.5-1ug/million cells Immunofluorescence: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/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



SDS-PAGE analysis of purified, BSA-free ACTH antibody (clone 2F6) as confirmation of integrity and purity.

Description

POMC (pro-opiomelanocortin or corticotropin-lipotropin) is a 267 amino acid polypeptide hormone precursor that goes through extensive, tissue-specific post-translational 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 (also called Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This antibody is specific to Synacthen (aa 1-24 of ACTH) and does not react with CLIP (aa 17-39 of ACTH). ACTH is produced by cells of immune system (T-cells, B-cells, and macrophages) in response to stimuli associated with stress. ACTH antibody 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 antibody to be titered up or down for optimal performance.

1. No special pretreatment is required for staining of formalin-fixed tissues.

Immunogen

A synthetic peptide corresponding to aa 1-24 of human ACTH was used as the immunogen for this 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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