

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

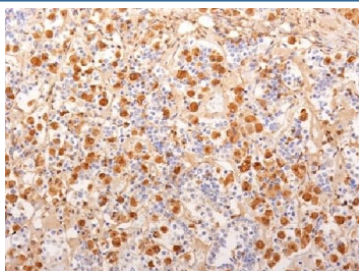
Catalog No.	Formulation	Size
V2232-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2232-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2232SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug



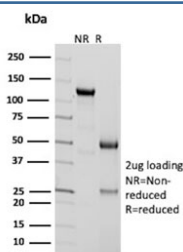
Citations (2)

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Species Reactivity	Human, Mouse, Rat
Format	Purified
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

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 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).

References (1)