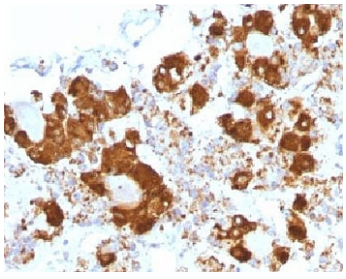
# ACTH Antibody / CLIP [clone CLIP/1407] (V3192)

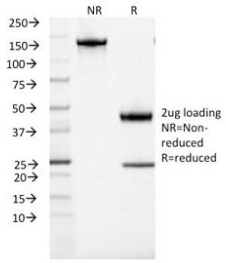
| Catalog No. | Formulation | Size |
|---|---|---|
| V3192-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3192-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug |
| V3192SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

**Bulk quote request**

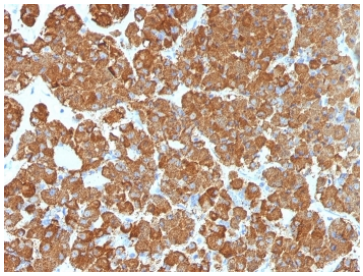
| | |
|---|---|
| **Species Reactivity** | Human |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Monoclonal (mouse origin) |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | CLIP/1407 |
| **Purity** | Protein G affinity chromatography |
| **Buffer** | 1X PBS, pH 7.4 |
| **Gene ID** | 5443 |
| **Localization** | Cytoplasmic |
| **Applications** | Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT |
| **Limitations** | This ACTH antibody is available for research use only. |



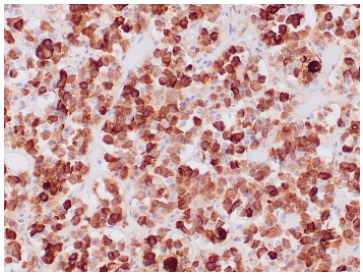
IHC testing of FFPE human pituitary gland with ACTH antibody (clone CLIP/1407). Required HIER: steam sections in 10mM citrate buffer, pH6, for 10-20 min.




SDS-PAGE Analysis of Purified, BSA-Free ACTH Antibody (clone CLIP/1407). Confirmation of Integrity and Purity of the Antibody.



IHC testing of FFPE human pituitary gland with ACTH antibody (clone CLIP/1407). Required HIER: steam sections in EDTA buffer, pH9, for 10-20 min.



IHC testing of FFPE human pituitary adenoma with ACTH antibody (clone CLIP/1407). Required HIER: steam sections in EDTA buffer, pH9, 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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