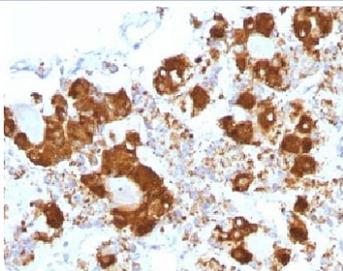


## ACTH Antibody / CLIP [clone CLIP/1407] (V3192)

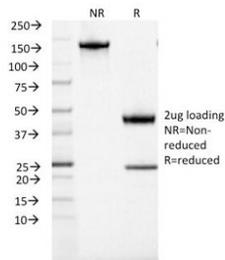
| Catalog No.    | Formulation  | Size   |
|----------------|--|--------|
| V3192-100UG    | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 100 ug |
| V3192-20UG     | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide | 20 ug  |
| V3192SAF-100UG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

[Bulk quote request](#)

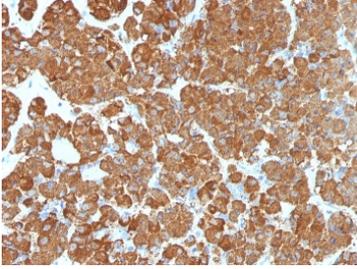
|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Format</b>             | Purified  |
| <b>Host</b>               | Mouse   |
| <b>Clonality</b>          | Monoclonal (mouse origin)                                 |
| <b>Isotype</b>    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



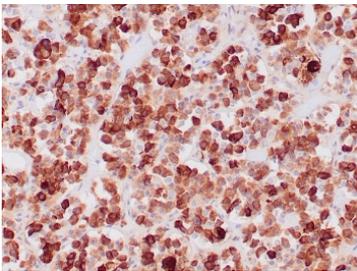
IHC testing of FFPE human pituitary gland with ACTH antibody (clone CLIP/1407).  
Required HIER: steam sections in 10mM citrate buffer, pH6, for 10-20 min.



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 titrated up or down for optimal performance.

## Immunogen

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

