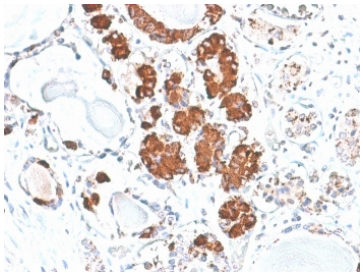
# Recombinant ACTH Antibody (CLIP polypeptide) [clone rCLIP/1407] (V8938)

| Catalog No. | Formulation | Size |
|---|---|---|
| V8938-100UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 100 ug |
| V8938-20UG | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide | 20 ug |
| V8938SAF-100UG | 1 mg/ml in 1X PBS; BSA free, sodium azide free | 100 ug |

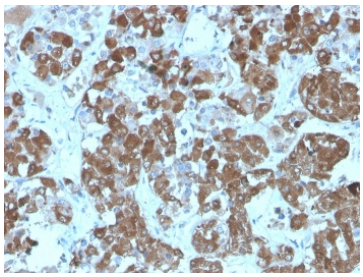
Recombinant | MOUSE MONOCLONAL

**Bulk quote request**

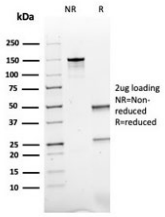
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse and Rat (broad species reactivity predicted) |
| **Format** | Purified |
| **Host** | Mouse |
| **Clonality** | Recombinant Mouse Monoclonal |
| **Isotype** | Mouse IgG1, kappa |
| **Clone Name** | rCLIP/1407 |
| **Purity** | Protein A/G affinity |
| **UniProt** | P01189 |
| **Localization** | Cytoplasmic |
| **Applications** | Immunohistochemistry (FFPE): 1-2ug/ml |
| **Limitations** | This recombinant ACTH antibody is available for research use only. |



IHC staining of FFPE human pituitary with recombinant ACTH antibody (clone rCLIP/1407). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human pituitary tissue with recombinant ACTH antibody (clone rCLIP/1407). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.




SDS-PAGE analysis of purified, BSA-free recombinant ACTH antibody (clone rCLIP/1407) 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 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

Optimal dilution of the recombinant ACTH antibody should be determined by the researcher.

## Immunogen

Amino acids NGAEDESAEAFPLEF from human ACTH was used as the immunogen for the recombinant ACTH antibody. This sequence is from the CLIP or Corticotropin-like intermediary peptide polypeptide of ACTH.

## Storage

Aliquot the recombinant ACTH antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.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