

Datasheet for ABIN6940333

## Recombinant anti-POMC antibody (AA 25-39)



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### 1 Image

#### Overview

|                      |                                     |
|----------------------|-------------------------------------|
| Quantity:            | 100 µg                              |
| Target:              | POMC                                |
| Binding Specificity: | AA 25-39                            |
| Reactivity:          | Human                               |
| Host:                | Mouse                               |
| Antibody Type:       | Recombinant Antibody                |
| Clonality:           | Monoclonal                          |
| Conjugate:           | This POMC antibody is un-conjugated |
| Application:         | ELISA, Coating (Coat)               |

#### Product Details

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:   | Synthetic peptide corresponding to aa25-39 of human ACTH (NGAEDESAEAFPLEF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone:       | RCLIP-1418                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Isotype:     | IgG1 kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Specificity: | ACTH (same as Corticotropin) is a 39 amino acid active peptide produced by the anterior pituitary. This MAb is specific to CLIP (aa25-39 of ACTH), does not react with Synacthen (aa1-24 of ACTH). 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- |

## Product Details

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. '

Purification: Purified by Protein A/G

## Target Details

Target: POMC

Alternative Name: POMC ([POMC Products](#))

Molecular Weight: ACTH is ~5kDa, and the POMC precursor is ~30kDa. The molecular weight of POMC depends upon isoform variation and post-translational modifications.

Gene ID: 5443

UniProt: [P01189](#)

Pathways: [Metabolism of Steroid Hormones and Vitamin D](#), [Peptide Hormone Metabolism](#), [Hormone Activity](#), [Feeding Behaviour](#)

## Application Details

Application Notes: Positive Control: Normal pituitary gland or pituitary tumor.  
Known Application: ELISA (For coating, order Ab without BSA), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

## Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

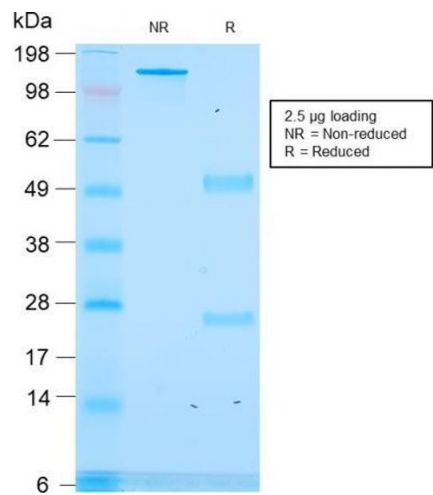
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -80 °C

Handling

|                  |                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage Comment: | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required. |
| Expiry Date:     | 24 months                                                                                                                                                   |

Images



SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified ACTH Recombinant Mouse Monoclonal Antibody (rCLIP/1418). Confirmation of Purity and Integrity of Antibody.