

Datasheet for ABIN7126807

## Recombinant anti-POMC antibody (AA 1-24)



[Go to Product page](#)

### Overview

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Quantity:            | 100 µg                                                   |
| Target:              | POMC                                                     |
| Binding Specificity: | AA 1-24                                                  |
| Reactivity:          | Human                                                    |
| Host:                | Mouse                                                    |
| Antibody Type:       | Recombinant Antibody                                     |
| Clonality:           | Monoclonal                                               |
| Conjugate:           | This POMC antibody is un-conjugated                      |
| Application:         | Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

### Product Details

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:   | Synthetic peptide corresponding to aa1-24 of human ACTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Isotype:     | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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-enkephalin. ACTH is also produced by cells of immune system (T-cells, B-cells, and |

## Product Details

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.

Cross-Reactivity (Details): Human.

Purification: 1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

## Target Details

Target: POMC

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

Background: Adrenocorticotropin, alpha, beta or gamma Melanocyte Stimulating Hormone (MSH) or Melanotropin, beta Endorphin, beta or gamma Lipotropin (LPH), CLIP, Met Enkephalin, POC, POMC, ACTH (Adrenocorticotrophic Hormone) (Pituitary Marker)  
Cellular localisation: Cytoplasm.

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, 1897

UniProt: [P01189](#)

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

## Application Details

Application Notes: Known\_Application: Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95 °C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.  
Positive\_Control: Normal pituitary gland or pituitary tumor.

Restrictions: For Research Use only

## Handling

Concentration: 1.0 mg/mL

Handling

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| Buffer:          | Prepared in 10 mM PBS, WITHOUT BSA and Azide.                                                     |
| Preservative:    | Azide free                                                                                        |
| Storage:         | -20 °C,-80 °C                                                                                     |
| Storage Comment: | Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. |
| Expiry Date:     | 24 months                                                                                         |