

Datasheet for ABIN6938219  
**anti-POMC antibody (AA 162-176)**



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## Overview

|                      |                                                          |
|----------------------|----------------------------------------------------------|
| Quantity:            | 100 µg                                                   |
| Target:              | POMC                                                     |
| Binding Specificity: | AA 162-176                                               |
| Reactivity:          | Human                                                    |
| Host:                | Mouse                                                    |
| Clonality:           | Monoclonal                                               |
| Conjugate:           | This POMC antibody is un-conjugated                      |
| Application:         | Immunohistochemistry (Formalin-fixed Sections) (IHC (f)) |

## Product Details

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Immunogen:   | Synthetic peptide corresponding to (aa 162-176) of human ACTH (NGAEDESAEAFPLEF)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clone:       | CLIP-1407                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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-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 ( <a href="#">POMC Products</a> )                                                                                                                                                                                                                                            |
| 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)<br><br>Cellular localisation: Cytoplasmic |
| 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:          | <a href="#">P01189</a>                                                                                                                                                                                                                                                            |
| Pathways:         | <a href="#">Metabolism of Steroid Hormones and Vitamin D</a> , <a href="#">Peptide Hormone Metabolism</a> , <a href="#">Hormone Activity</a> , <a href="#">Feeding Behaviour</a>                                                                                                  |

## Application Details

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| 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.<br><br>Positive_Control: Normal pituitary gland or pituitary tumor |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                     |

## Handling

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|----------------|-----------|
| Concentration: | 1.0 mg/mL |
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## 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                                                                                       |