

# MC3 Receptor Rabbit pAb

Catalog # AP97160

## Product Information

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|--------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>             | WB, IHC-P, IHC-F, IF, E                                                                                                      |
| <b>Primary Accession</b>       | <a href="#">P41968</a>                                                                                                       |
| <b>Other Accession</b>         | <a href="#">P41968</a>                                                                                                       |
| <b>Host</b>                    | Rabbit                                                                                                                       |
| <b>Clonality</b>               | Polyclonal                                                                                                                   |
| <b>Calculated MW</b>           | 36043                                                                                                                        |
| <b>Physical State</b>          | Liquid                                                                                                                       |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human MC3 Receptor                                                             |
| <b>Epitope Specificity</b>     | 131-230/360                                                                                                                  |
| <b>Isotype</b>                 | IgG                                                                                                                          |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                               |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                            |
| <b>SIMILARITY</b>              | Belongs to the G-protein coupled receptor 1 family.                                                                          |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.    |
| <b>Background Descriptions</b> | Receptor for MSH (alpha, beta and gamma) and ACTH. This receptor is mediated by G proteins which activate adenylate cyclase. |

## Additional Information

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| <b>Gene ID</b>     | 4159                                                                                                                                                                                            |
| <b>Other Names</b> | BMIQ9; MC3; MC3-R; OB20; OQTL; MC3R_HUMAN; MC3R; MC3R_MOUSE; MC3R_RAT; melanocortin 3 receptor                                                                                                  |
| <b>Dilution</b>    | WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000                                                                                                                   |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |

## Protein Information

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| <b>Name</b>     | MC3R ( <a href="#">HGNC:6931</a> )                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b> | G protein-coupled receptor for melanocyte-stimulating hormones (alpha, beta, and gamma-MSH) and corticotropin/ACTH, which are peptide products of the POMC precursor (PubMed: <a href="#">37524700</a> , PubMed: <a href="#">8463333</a> ). Upon activation, couples to G(s) protein, stimulating adenylate cyclase and the cAMP-dependent signaling pathway, which contributes to the regulation of |

energy homeostasis (PubMed:[18231126](#), PubMed:[37524700](#), PubMed:[8463333](#)). Required for expression of anticipatory patterns of activity and wakefulness during periods of limited nutrient availability and for the normal regulation of circadian clock activity in the brain (By similarity). Binding of the Agouti-related protein/AGPR antagonist precludes alpha-MSH-induced signaling, blocking cAMP production (PubMed:[9311920](#)).

**Cellular Location** Cell membrane; Multi-pass membrane protein.

**Tissue Location** Brain, placental, and gut tissues.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.