

MC5-R Polyclonal Antibody

Catalog # AP70859

Product Information

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| Application | WB, IHC-P |
| Primary Accession | P33032 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 36601 |

Additional Information

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| Gene ID | 4161 |
| Other Names | MC5R; Melanocortin receptor 5; MC5-R; MC-2 |
| Dilution | WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

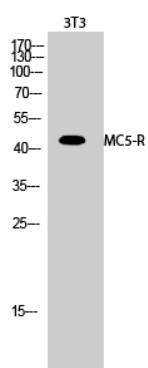
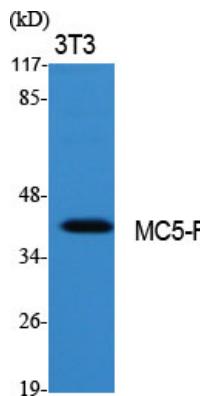
Protein Information

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| Name | MC5R (HGNC:6933) |
| Function | 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: 37524700 , PubMed: 8396929). Upon activation, couples to G(s) protein, stimulating adenylate cyclase and the cAMP-dependent signaling pathway (PubMed: 37524700). Also activates ERK1/2 via a PI3K-dependent signaling mechanism (PubMed: 19428994). Order of potency of natural melanocortins in receptor activation is alpha-MSH > ACTH > beta-MSH > gamma-MSH (PubMed: 8396929). Plays a key role in immune response, and is essential for temperature regulation and exocrine gland function (By similarity). |
| Cellular Location | Cell membrane; Multi-pass membrane protein. |
| Tissue Location | Expressed in the brain but not in the melanoma cells |

Background

Receptor for MSH (alpha, beta and gamma) and ACTH. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. This receptor is a possible mediator of the immunomodulation properties of melanocortins.

Images



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