

# MC5-R Polyclonal Antibody

Catalog # AP70859

## Product Information

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Application	WB, IHC-P
Primary Accession	<a href="#">P33032</a>
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 ( <a href="#">HGNC:6933</a> )
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: <a href="#">37524700</a> , PubMed: <a href="#">8396929</a> ). Upon activation, couples to G(s) protein, stimulating adenylate cyclase and the cAMP-dependent signaling pathway (PubMed: <a href="#">37524700</a> ). Also activates ERK1/2 via a PI3K-dependent signaling mechanism (PubMed: <a href="#">19428994</a> ). Order of potency of natural melanocortins in receptor activation is alpha-MSH > ACTH > beta-MSH > gamma-MSH (PubMed: <a href="#">8396929</a> ). 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

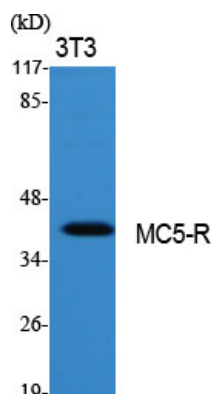
## Background

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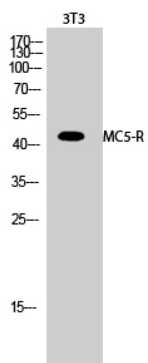
Receptor for MSH (alpha, beta and gamma) and ACTH. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. This receptor is a possible mediator of the immunomodulation properties of melanocortins.

## Images

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Western Blot analysis of various cells using MC5-R Polyclonal Antibody



Western Blot analysis of 3T3 cells using MC5-R Polyclonal Antibody

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