

# MC5 Receptor Antibody

Rabbit mAb  
Catalog # AP92755

## Product Information

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<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">P33032</a>
<b>Reactivity</b>	Human
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	MC2; MC5R; Melanocortin 5 receptor;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	36601

## Additional Information

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<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human MC5 Receptor
<b>Description</b>	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.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

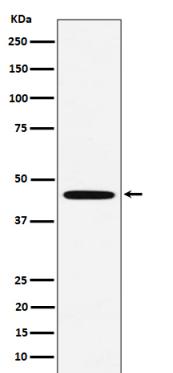
## Protein Information

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<b>Name</b>	MC5R ( <a href="#">HGNC:6933</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="#">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="#">1942894</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).
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein.
<b>Tissue Location</b>	Expressed in the brain but not in the melanoma cells

## Images

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Western blot analysis of MC5 Receptor expression in HeLa cell lysate.

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