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MC5 Receptor Antibody

Rabbit mAb
Catalog # AP92755

Product Information

Application	WB, IHC
Primary Accession	P33032
Reactivity	Human
Clonality	Monoclonal
Other Names	MC2; MC5R; Melanocortin 5 receptor;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	36601

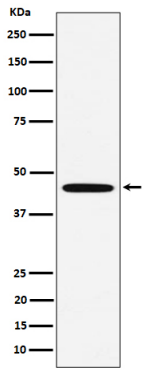
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human MC5 Receptor
Description	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.
Storage Condition and Buffer	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

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

Images



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

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