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MC5R Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18970b

Product Information

Application	WB, E
Primary Accession	P33032
Other Accession	P56451, NP_005904.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39196
Calculated MW	36601
Antigen Region	280-308

Additional Information

Gene ID	4161
Other Names	Melanocortin receptor 5, MC5-R, MC-2, MC5R
Target/Specificity	This MC5R antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 280-308 amino acids from the C-terminal region of human MC5R.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MC5R Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

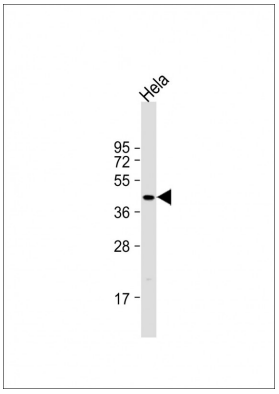
Background

This gene encodes a member of the seven-pass transmembrane G protein-coupled melanocortin receptor protein family that stimulate cAMP signal transduction. The encoded protein is a receptor for melanocyte-stimulating hormone and adrenocorticotropic hormone and is suggested to play a role in sebum generation.

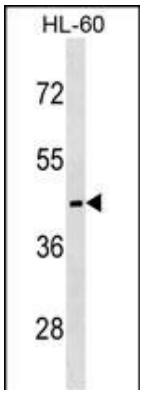
References

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Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
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Images



Anti-MC5R Antibody (C-term) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 37 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



MC5R Antibody (C-term) (Cat. #AP18970b) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the MC5R antibody detected the MC5R protein (arrow).

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