

MC1R Antibody

Catalog No: #36969

Package Size: #36969 100ul

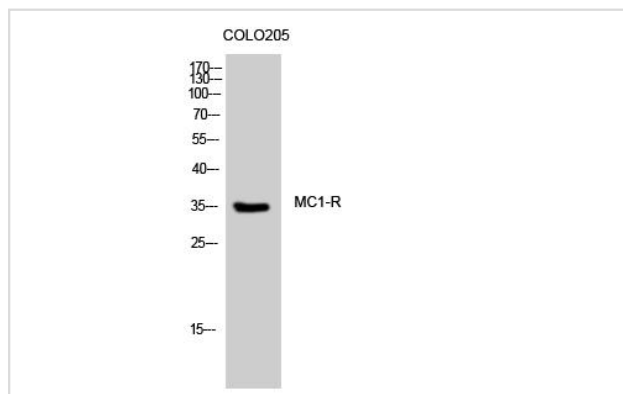
Description

Product Name	MC1R Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total MC1R protein.
Immunogen Type	Peptide
Immunogen Description	The antiserum was produced against synthesized peptide derived from human MSHR.
Conjugates	Unconjugated
Target Name	MC1R
Other Names	CMM5; MSH-R; SHEP2
Accession No.	Swiss-Prot#: Q01726NCBI Gene ID: 4157Gene Accssion: NP_002377
SDS-PAGE MW	35kd
Concentration	1.0 mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C

Application Details

Western blotting: 1:500-1:2000

Images



Western Blot analysis of COLO205 cells using MC1-R Polyclonal Antibody

Background

This intronless gene encodes the receptor protein for melanocyte-stimulating hormone (MSH). The encoded protein, a seven pass transmembrane G

protein coupled receptor, controls melanogenesis. Two types of melanin exist: red pheomelanin and black eumelanin. Gene mutations that lead to a loss in function are associated with increased pheomelanin production, which leads to lighter skin and hair color. Eumelanin is photoprotective but pheomelanin may contribute to UV-induced skin damage by generating free radicals upon UV radiation. Binding of MSH to its receptor activates the receptor and stimulates eumelanin synthesis. This receptor is a major determining factor in sun sensitivity and is a genetic risk factor for melanoma and non-melanoma skin cancer. Over 30 variant alleles have been identified which correlate with skin and hair color, providing evidence that this gene is an important component in determining normal human pigment variation.?

Published Papers

el at., Melanocortin 1 receptor mediates melanin production by interacting with the BBSome in primary cilia. In PLoS Biol on 2024 Dec 2 by Xiaoyu Tian, Hanyu Wang,et al..PMID:39621784, , (2024)

[PMID:39621784](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.