

## MC1R antibody

Catalog No: #38533

Package Size: #38533-1 50ul #38533-2 100ul

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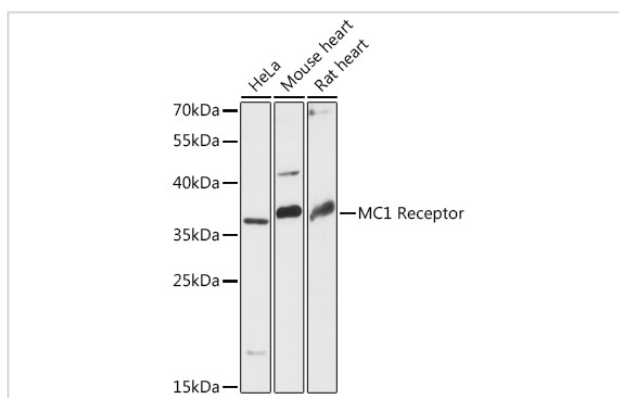
## Description

Product Name	MC1R antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	Affinity purification
Applications	WB
Species Reactivity	Human,Mouse,Rat
Specificity	MC1R Antibody detects endogenous levels of total MC1R.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human MC1 Receptor (NP_002377.4).
Target Name	MC1R
Other Names	MC1R;CMM5;MSH-R;SHEP2
Accession No.	Uniprot:Q01726GeneID:4157
SDS-PAGE MW	36kDa
Concentration	1.0mg/ml
Formulation	PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Storage	Store at -20°C. Avoid freeze / thaw cycles.

## Application Details

WB □ 1:500 - 1:2000

## Images



Western blot analysis of extracts of various cell lines, using MC1 Receptor 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.

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