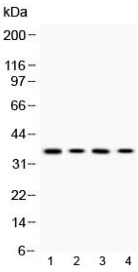
MC1R Antibody (R32755)

Catalog No.	Formulation	Size
R32755	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	Q01726
Applications	WB: 0.5-1ug/ml
Limitations	This MC1R antibody is available for research use only.



Western blot testing of 1) rat PC12, 2) mouse Hepa1-6, 3) human HeLa and 4) human A375 cell lysate with MC1R antibody at 0.5ug/ml. Predicted molecular weight ~35 kDa.

Description

The Melanocortin 1 receptor (MC1R), mapped to 16q24.3, is also known as MSHR. 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.

Application Notes

Optimal dilution of the MC1R antibody should be determined by the researcher.

Immunogen

Amino acids 290-317 (NAIIDPLIYAFHSQELRRTLKEVLTCSW) from the human protein were used as the immunogen for the MC1R antibody.

Storage

After reconstitution, the MC1R antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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