
Product Name: KD-Validated Melanocortin 1 Receptor Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01107

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 34.7kDa

Antigen Information

Gene Name	MC1R
Alternative Names	MC1R; Melanocortin 1 Receptor; MSH-R; Alpha Melanocyte Stimulating Hormone Receptor; Melanocyte-Stimulating Hormone Receptor; MC1-R; Melanocortin 1 Receptor (Alpha Melanocyte Stimulating Hormone Receptor); Melanocortin Receptor 1; Melanotropin Receptor; SHEP2; CMM5; MSHR
Gene ID	4157.0
SwissProt ID	Q01726
Immunogen	A synthesized peptide derived from human MC1 Receptor

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. [provided by RefSeq, Jul 2008]

Research Area

Neuroscience, Metabolism

Image Data

