

MC1R polyclonal antibody (A01)

Catalog # H00004157-A01

Size 50 uL

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant MC1R.
Immunogen	MC1R (AAH07856, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag.
Sequence	MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFLSLGLVSLVENALVVATIAKN RNLHSPMYCFICCLALSDLLVSGSNVLETAVILL
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA

Gene Info — MC1R

Entrez GeneID	4157
GeneBank Accession#	BC007856
Protein Accession#	AAH07856
Gene Name	MC1R
Gene Alias	MGC14337, MSH-R, SHEP2

Gene Description	melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor)
Omim ID	155555 203200
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	melanocortin 1 receptor melanocyte stimulating hormone receptor melanotropin receptor

Pathway

- [Melanogenesis](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Albinism](#)
- [Bone Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Disease Susceptibility](#)
- [Dysplastic Nevus Syndrome](#)
- [Epstein-Barr Virus Infections](#)

- [Erythema](#)
- [Eye Neoplasms](#)
- [Genetic Determinism](#)
- [Genetic Predisposition to Disease](#)
- [Lymphoma](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Melanosis](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Nevus](#)
- [Obesity](#)
- [Pain](#)
- [Parkinson disease](#)
- [Photosensitivity Disorders](#)
- [Pigmentation Disorders](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)
- [Radiation Injuries](#)
- [Skin Neoplasms](#)
- [Sunburn](#)
- [Thyroid Neoplasms](#)
- [Vitiligo](#)
- [Vulvar Diseases](#)