

Anti-MC1-R Antibody [JE39-49]

HA721377



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 35 kDa
Clone number:	JE39-49

Description:	Receptor for MSH (alpha, beta and gamma) and ACTH. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. 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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Immunogen: Synthetic peptide within Human MC1-R aa 1-50 / 317.

Positive control: HepG2 cell lysate, Raji cell lysate, SW620 cell lysate, rat skin tissue lysate.

Subcellular location: Cell membrane.

Database links: SwissProt: Q01726 Human | B6ZGR5 Rat

Recommended Dilutions:

WB 1: 1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

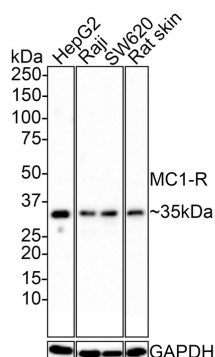
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of MC1-R on different lysates with Rabbit anti-MC1-R antibody (HA721377) at 1/1,000 dilution.

Lane 1: HepG2 cell lysate (15 µg/Lane)
 Lane 2: Raji cell lysate (15 µg/Lane)
 Lane 3: SW620 cell lysate (15 µg/Lane)
 Lane 4: Rat skin tissue lysate (30 µg/Lane)



Predicted band size: 35 kDa

Observed band size: 35 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721377) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Jimenez-Cervantes C et al. The Pro162 variant is a loss-of-function mutation of the human melanocortin 1 receptor gene. J. Invest. Dermatol. 117:156-158 (2001)
2. Nakayama K et al. Identification of novel functional variants of the melanocortin 1 receptor gene originated from Asians. Hum. Genet. 119:322-330 (2006)

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