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Datasheet for ABIN6944034

## anti-MC1 Receptor antibody (AA 181-280) (HRP)

### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | MC1 Receptor (MC1R)  |
| Binding Specificity: | AA 181-280   |
| Reactivity:          | Human  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This MC1 Receptor antibody is conjugated to HRP  |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)),<br>Immunohistochemistry (Frozen Sections) (IHC (fro)) |

### Product Details

|                   |  |
|-------------------|--|
| Immunogen:        | KLH conjugated synthetic peptide derived from human MC1 Receptor |
| Isotype:          | IgG  |
| Cross-Reactivity: | Human  |
| Purification:     | Purified by Protein A.   |

### Target Details

|                   |  |
|-------------------|--|
| Target:           | MC1 Receptor (MC1R)  |
| Alternative Name: | MC1 Receptor ( <a href="#">MC1R Products</a> )                             |
| Background:       | Synonyms: MC1 Receptor, CMM5, MC1-R, MC-1R, MC1R, Melanocortin 1 receptor, |

## Target Details

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Melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor), Melanocortin receptor 1, Melanocyte-stimulating hormone receptor, Melanotropin receptor, MSH-R, MSHR, MSHR\_HUMAN, SHEP2.

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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Gene ID: 4157

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UniProt: [Q01727](#)

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Pathways: [cAMP Metabolic Process](#), [Feeding Behaviour](#)

## Application Details

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Application Notes: WB 1:300-5000  
IHC-P 1:200-400  
IHC-F 1:100-500

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Concentration: 1 µg/µL

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Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

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Preservative: ProClin

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Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

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## Handling

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Storage: -20 °C

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Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date: 12 months