SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-MC1R antibody

Catalog Number: SL23517R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	MC1R
Immunogen:	KLH conjugated synthetic peptide derived from human MC1 Receptor : 181-280/317 <Cytoplasmic>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human
Predicted MW.:	35kDa
Subcellular Location:	The cell membrane
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. Over30 variant

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	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. **Function:** Receptor for MSH (alpha, beta and gamma) and ACTH. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. **Subcellular Location:** Cell membrane. **Tissue Specificity:** Melanocytes and corticoadrenal tissue. DISEASE: Genetic variations in MC1R are a cause of susceptibility to cutaneous malignant melanoma type 5 (CMM5) [MIM:613099]. Malignant melanoma is a malignant neoplasm of melanocytes, arising de novo or from a pre-existing benign nevus, which occurs most often in the skin but also may involve other sites. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:** **Entrez Gene:** 4157 Human Omim: 155555 Human **SwissProt:** Q01726 Human **Unigene:** 513829 Human Steroid Receptors

[VALIDATION IMAGES]

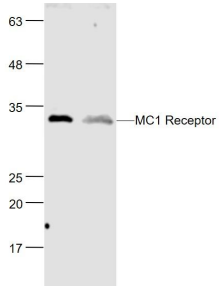


Figure 1. Sample: MCF-7 (Human) Cell Lysate at 30 ug A549 (Human) Cell Lysate at 30 ug Primary: Anti- MC1 Receptor (SL23517R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 34 kD

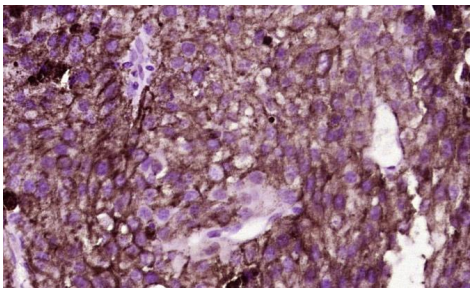


Figure 2. Paraformaldehyde-fixed, paraffin embedded (Human melanoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MC1) Polyclonal Antibody, Unconjugated (SL23517R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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