10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

MC1R Rabbit pAb

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Catalog # AP94739

Product Information

Application	WB, IHC-P, IHC-F, IF
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse MC1R
Epitope Specificity	271-317/317
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Enables melanocyte-stimulating hormone receptor activity. Involved in intracellular signal transduction; positive regulation of intracellular signal transduction; and positive regulation of transcription by RNA polymerase II. Acts upstream of or within melanin biosynthetic process; pigmentation; and sensory perception of pain. Predicted to be located in membrane. Predicted to be integral component of membrane. Predicted to be active in cytoplasm and plasma membrane. Is expressed in ductus deferens; epididymis; esophagus; and skin. Human ortholog(s) of this gene implicated in familial melanoma; major depressive disorder; melanoma; oculocutaneous albinism type II; and pigmentation disease. Orthologous to human MC1R (melanocortin 1 receptor). [provided by Alliance of Genome Resources, Nov 2021]

Additional Information

Target/Specificity	Melanocytes and corticoadrenal tissue.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 g/Test
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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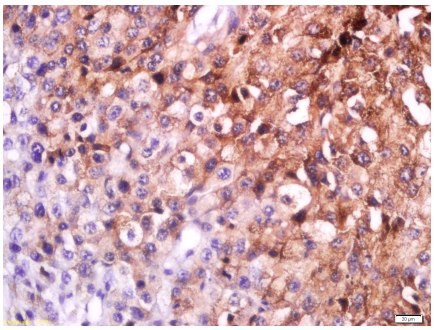
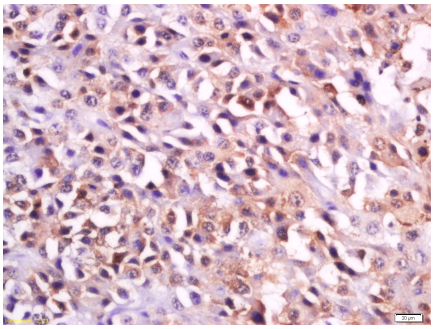
Images



Tissue/cell: human melanoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: Anti-MSHR Polyclonal Antibody, Unconjugated(AP94739) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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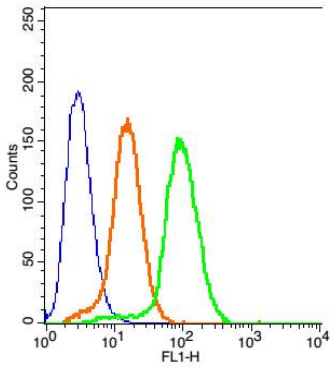
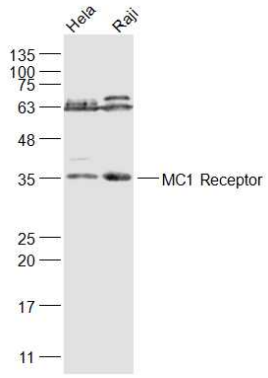
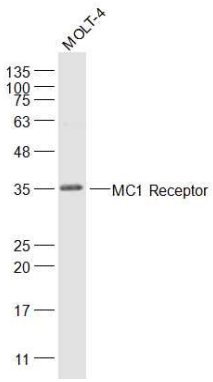


Blank control: 293T(blue). Primary Antibody: Rabbit Anti-MC1 Receptor/AF488 Conjugated antibody (AP94739-AF488), Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF488(orange) ,used under the same conditions. Protocol The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice. The cells were washed twice with 1 X PBS. The cells were incubated in 1 X PBS containing 0.5% BSA + 1 0% goat serum (15 min) to block non-specific protein-protein interactions followed by the incubated with antibody (AP94739-AF488, 1 µg /1x10^6 cells) for 30 min on ice. Acquisition of 20,000 events was performed.

Sample: Hela(Human) Cell Lysate at 30 ug Raji(Human) Cell Lysate at 30 ug Primary: Anti-MC1 Receptor (AP94739) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 35 kD





Sample: MOLT-4(Human) Cell Lysate at 30 ug Primary: Anti-MC1 Receptor (AP94739) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 35 kD