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Rabbit Anti-TRPM1/Cy5 Conjugated antibody

SL9049R-Cy5

Product Name	Anti-TRPM1/Cy5
Chinese Name	Cy5 标记的瞬时受体电位离子 Channel protein1 抗体（M 亚家族）
Alias	Long transient receptor potential channel 1; LTRPC1; Melastatin 1; Melastatin-1; MLSN1; Transient receptor potential cation channel subfamily M member 1; Transient receptor potential cation channel, subfamily M, member 1; TRPM1; TRPM1 protein; TRPM1_HUMAN; Weakly similar to F54D1.5 [C.elegans].
Research Area	Tumour Cell biology immunology Signal transduction Channel protein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Applications	ICC/IF=1:50-200,IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	182kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human TRPM1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** Cation channel essential for the depolarizing photoresponse of retinal ON bipolar cells. It is part of the GRM6 signaling cascade. May play a role in metastasis suppression (By similarity). May act as a spontaneously active, calcium-permeable plasma membrane channel.

Involvement in disease:
Defects in TRPM1 are the cause of congenital stationary night blindness type 1C (CSNB1C) [MIM:613216]. A non-progressive retinal disorder characterized by impaired night vision, often associated with nystagmus and myopia.

Function:
Cation channel essential for the depolarizing photoresponse of retinal ON bipolar cells. It is part of the GRM6 signaling cascade. May play a role in metastasis suppression (By similarity). May act as a spontaneously active, calcium-permeable plasma membrane channel.

Subcellular Location:
Cell membrane

Tissue Specificity:
Expressed in the retina where it localizes to the outer plexiform layer. Highly expressed in benign melanocytic nevi and diffusely expressed in various in situ melanomas, but not detected in melanoma metastases. Also expressed in melanocytes and pigmented metastatic melanoma cell lines. In melanocytes expression appears to be regulated at the level of transcription and mRNA processing.

DISEASE:
Defects in TRPM1 are the cause of congenital stationary night blindness type 1C (CSNB1C) [MIM:613216]. A non-progressive retinal disorder characterized by impaired night vision, often associated with nystagmus and myopia.

Similarity:
Belongs to the transient receptor (TC 1.A.4) family. LTrpC subfamily. TRPM1 sub-subfamily.

Database links:

Entrez Gene: 4308 Human

Entrez Gene: 17364 Mouse

Entrez Gene: 361586 Rat

Omim: 603576 Human

SwissProt: O75560 Human

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SwissProt: Q7Z4N2 Human

SwissProt: Q2TV84 Mouse

SwissProt: Q2WEA4 Rat

SwissProt: Q2WEA5 Rat

Unigene: 155942 Human

Unigene: 38875 Mouse

Unigene: 211311 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.