SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-TRPM1/Cy3 Conjugated antibody

Catalog Number: SL9049R-Cy3

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-TRPM1/Cy3
Immunogen:	KLH conjugated synthetic peptide derived from human TRPM1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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.
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.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Background:	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

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	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 **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.

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