

TRPM6 Rabbit pAb

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Catalog # AP59120

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5VYG5
Reactivity	Human
Predicted	Rat, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRPM6
Epitope Specificity	701-800/2022
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	Membrane; Multi-pass membrane protein.
DISEASE	Defects in TRPM6 are the cause of hypomagnesemia type 1 (HOMG1) [MIM:602014]; also known as hypomagnesemia with secondary hypocalcemia (HSH). HOMG1 is a disorder due to a primary defect in intestinal magnesium absorption. It is characterized by low levels of serum magnesium alongside with a normal renal magnesium secretion, secondary hypocalcemia and calcinosis. Affected individuals show neurologic symptoms of hypomagnesemic hypocalcemia, including seizures and muscle spasms, during infancy. Hypocalcemia is secondary to parathyroid failure resulting from magnesium deficiency. Untreated, the disorder may be fatal or may result in neurological damage.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TRPM6 is an essential ion channel and serine/threonine-protein kinase, and is crucial for magnesium homeostasis. TRPM6 also has an important role in epithelial magnesium transport and in the active magnesium absorption in the gut and kidney. The various isoforms of the type M6-kinase lack the ion channel region.

Additional Information

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:50-200,ELISA=1:5000-10000
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.

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