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PRODUCT DATASHEET

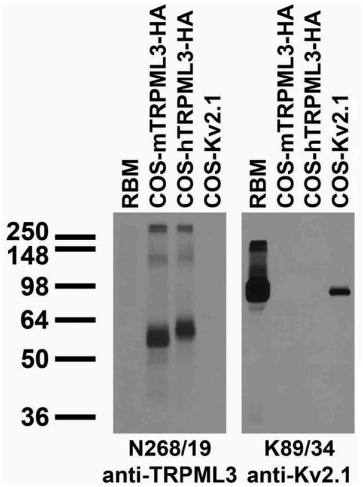
Anti-TRPML3/Mucolipin-3 Antibody

Product Details

Available Variants	100 µL (SKU:75-283)
Conjugate	Unconjugated
Isotype	IgG2a
Clone	N268/19
Gene Name	MCOLN3
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.125
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, WB
Species Reactivity	Human, Mouse, Rat
Immunogen	Synthetic peptide amino acids 269-285 (CKDWHVSGSIQKNTHYM, extracellular N-terminus) of human TRPML3 (accession number Q8TDD5)
Specificity	No cross-reactivity reported
Molecular Weight	64 kDa
Quality Control	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.

Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Antibody Registry ID	AB_11000726
UniProt ID	Q8TDD5 UniProt Summary: Nonselective cation channel probably playing a role in the regulation of membrane trafficking events. Acts as a Ca(2+)-permeable cation channel with inwardly rectifying activity. Mediates release of Ca(2+) from endosomes to the cytoplasm, contributes to endosomal acidification and is involved in the regulation of membrane trafficking and fusion in the endosomal pathway. Also permeable to Mg(2+), Na(+) and K(+). Does not seem to act as mechanosensory transduction channel in inner ear sensory hair cells. Proposed to play a critical role at the cochlear stereocilia ankle-link region during hair-bundle growth. Involved in the regulation of autophagy. Through association with GABARAPL2 may be involved in autophagosome formation possibly providing Ca(2+) for the fusion process. Through a possible and probably tissue-specific heteromerization with MCOLN1 may be at least in part involved in many lysosome-dependent cellular events. Possible heteromeric ion channel assemblies with TRPV5 show pharmacological similarity with TRPML3.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	55283

Product Images



Tissue and transfected cell immunoblot: extracts of rat brain membranes (RBM) and of COS cells transiently transfected with HA-tagged mouse and human TRPML3 (mTRPML3 and hTRPML3) or untagged Kv2.1 plasmid and probed with N268/19 (left) and K89/34 (right) TC supe.

Created on 22. November 2026 | All information without guarantee