DATASHEET

MCOLN3 Rabbit Polyclonal Antibody

CAT. NO. ARA5834

KEY FEATURES

Target	MCOLN3	**Source/Host**	Rabbit
Reactivity	Human, Mouse, Rat	**Clonality**	Polyclonal
Applications	WB,CoIP,ELISA	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

MCOLN3 (mucolipin TRP cation channel 3), also known as TRPML3, is a member of the mucolipin family of transient receptor potential (TRP) cation channels. It is a non-selective cation channel that conducts calcium and other cations and is primarily localized to the membranes of endosomes, lysosomes and autophagosomes. MCOLN3 promotes endosomal acidification and regulates membrane transport and fusion, lysosomal membrane potential and the autophagy process, and it contributes to the maintenance of intracellular calcium and iron homeostasis. MCOLN3 function depends on palmitoylation, which controls its trafficking to autophagosomes (PMID: 30215288), and the channel interacts with the mammalian ATG8 homologue GATE16 to regulate autophagosome maturation (PMID: 24269818). The highly similar mouse protein is expressed in cochlea hair cells, and mutant mice show early-onset hearing loss and balance problems. Multiple transcript variants encoding different isoforms have been found for this gene.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
ELISA	Assay-dependent
CoIP	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	MCOLN3 Rabbit Polyclonal Antibody for WB, CoIP, ELISA
Specificity	Reacts with MCOLN3 in WB, CoIP and ELISA applications. Shows reactivity with human, mouse and rat samples.
Antibody Type	Primary antibody
Immunogen	Recombinant human MCOLN3 protein (amino acids 86-285) expressed in E. coli with GST tag.
Molecular Weight	Predicted: 64 kDa; Observed: 80 kDa
Purification	Antigen affinity purification
Isotype	IgG
Form/Buffer	Liquid in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Alternative Names	Mucolipin 3, Transient receptor potential channel mucolipin 3, TRPML3, TRP-ML3
Gene Symbol	MCOLN3
Entrez Gene	55283
SwissProt	Q8TDD5

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

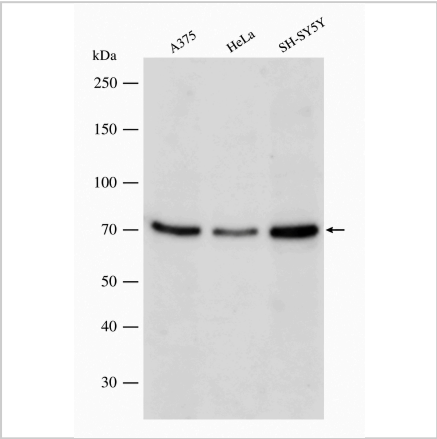
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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DATA



Various lysates were subjected to SDS PAGE followed by western blot with MCOLN3 Rabbit Polyclonal Antibody at dilution of 1:800 incubated at room temperature for 1.5 hours.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com