

For Research Use Only

# MCOLN3 Recombinant antibody, PBS Only

Catalog Number: 86202-1-PBS



## Basic Information

<b>Catalog Number:</b> 86202-1-PBS	<b>GenBank Accession Number:</b> BC060765	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55283	<b>CloneNo.:</b> 250799F8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8TDD5	
<b>Isotype:</b> IgG	<b>Full Name:</b> mucolipin 3	
<b>Immunogen Catalog Number:</b> AG4962	<b>Calculated MW:</b> 64 kDa	
	<b>Observed MW:</b> 80 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

MCOLN3 (Mucolipin 3) is a member of the TRPML (Transient Receptor Potential Mucolipin) gene family and encodes a non-selective cation channel protein that is primarily localized on the membranes of endosomes and lysosomes. MCOLN3 promotes endosome acidification, regulates membrane transport and fusion, and is involved in the autophagy process. Additionally, MCOLN3 is involved in the regulation of intracellular calcium ( $Ca^{2+}$ ) and iron ( $Fe^{2+}$ ) ion homeostasis, maintains lysosomal membrane potential, promotes endosome-lysosome fusion and material transport (such as autophagy), and may also be involved in neuronal signaling and immune regulation.

## Storage

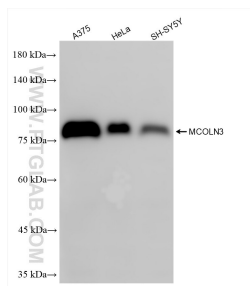
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86202-1-RR (MCOLN3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86202-1-PBS in a different storage buffer formulation.