

**MCLN1 rabbit pAb**

<b>Catalog No :</b>	YT8120
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	IHC;WB
<b>Target :</b>	MCOLN1
<b>Gene Name :</b>	MCOLN1 ML4 MSTP080
<b>Protein Name :</b>	Mucolipin-1 (MG-2) (Mucolipidin)
<b>Human Gene Id :</b>	57192
<b>Human Swiss Prot No :</b>	Q9GZU1
<b>Mouse Gene Id :</b>	94178
<b>Mouse Swiss Prot No :</b>	Q99J21
<b>Immunogen :</b>	Synthesized peptide derived from human N-terminal MCLN1
<b>Specificity :</b>	This antibody detects endogenous levels of MCLN1 at Human, Mouse
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 IHC 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 64kD**Function :**

Nonselective cation channel probably playing a role in the regulation of membrane trafficking events and of metal homeostasis. Proposed to play a major role in Ca(2+) release from late endosome and lysosome vesicles to the cytoplasm, which is important for many lysosome-dependent cellular events, including the fusion and trafficking of these organelles, exocytosis and autophagy . Required for efficient uptake of large particles in macrophages in which Ca(2+) release from the lysosomes triggers lysosomal exocytosis. May also play a role in phagosome-lysosome fusion (By similarity). Involved in lactosylceramide trafficking indicative for a role in the regulation of late endocytic membrane fusion/fission events . By mediating lysosomal Ca(2+) release is involved in regulation of mTORC1 signaling and in mTOR/TFEB-dependent lysosomal adaptation to environmental cues such as nutrient levels .

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**Subcellular Location :**

Late endosome membrane ; Multi-pass membrane protein . Lysosome membrane ; Multi-pass membrane protein . Cytoplasmic vesicle membrane ; Multi-pass membrane protein . Cell projection, phagocytic cup . Cytoplasmic vesicle, phagosome membrane ; Multi-pass membrane protein . Cell membrane ; Multi-pass membrane protein . Delivery from the trans-Golgi to lysosomes seems to occur mainly in a direct intracellular manner without intermediate delivery to the plasma membrane (PubMed:16497227). Under normal conditions, restricted to intracellular compartments so that only a very minor proportion is present at the cell membrane (PubMed:12459486, PubMed:18794901, PubMed:28112729, PubMed:29019983) .

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**Expression :** Widely expressed in adult and fetal tissues.

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