



MCLN1 rabbit pAb

Catalog No	YP-Ab-17275
Isotype	IgG
Reactivity	Human, Mouse
Applications	IHC, WB
Gene Name	MCOLN1 ML4 MSTP080
Immunogen	Synthesized peptide derived from human N-terminal MCLN1
Specificity	This antibody detects endogenous levels of MCLN1 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Rabbit, polyclonal
Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000 IHC 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MCLN1_HUMAN; Mcoln 1; Mcoln1; MG 2; MG-2; MG2; ML 4; ML4; MLIV; MST8; MSTP8; Mucolipidin; Mucolipin 1; Mucolipin-1; Mucolipin1; TRP ML1; TRPML1; MCOLN1 ML4 MSTP080; Mucolipin-1 (MG-2) (Mucolipidin)
Observed Band	64kD
Calculated Molecular Weight	65kD; 65kD(Calculated)
Cell Pathway	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). .
Tissue Specificity	Widely expressed in adult and fetal tissues.

**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 .

Background**matters needing attention**

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images