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CHMP1A Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16882a

Specification

CHMP1A Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9HD42

CHMP1A Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5119

Other Names
Charged multivesicular body protein 1a, Chromatin-modifying protein 1a, CHMP1a, Vacuolar protein sorting-associated protein 46-1, Vps46-1, hVps46-1, CHMP1A

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CHMP1A Antibody (N-term) Blocking Peptide - Protein Information

Name CHMP1A

Function
Probable peripherally associated component of the endosomal sorting required for transport complex III (ESCRT-III) which is involved in multivesicular bodies (MVBs) formation and sorting of endosomal cargo proteins into MVBs. MVBs contain intraluminal vesicles (ILVs) that are generated by invagination and scission from the limiting membrane of the endosome and mostly are delivered to lysosomes enabling degradation of membrane proteins, such as stimulated growth factor receptors, lysosomal enzymes and lipids. The MVB pathway appears to require the sequential function of ESCRT-O, -I,-II and -III complexes. ESCRT-III proteins mostly dissociate from the invaginating membrane before the ILV is released. The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis and the budding of enveloped viruses (HIV-1 and other lentiviruses). ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. Involved in cytokinesis. Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells. May also be involved in chromosome condensation. Targets the Polycomb group (PcG) protein BMI1/PCGF4 to regions of condensed chromatin. May play a role in stable cell cycle progression and in PcG gene silencing.

Cellular Location

Cytoplasm. Endosome membrane; Peripheral membrane protein. Nucleus matrix. Note=The cytoplasmic form is partially membrane-associated and localizes to early endosomes. The nuclear form remains associated with the chromosome scaffold during mitosis. On overexpression, it localizes to nuclear bodies characterized by nuclease-resistant condensed chromatin

Tissue Location
Expressed in placenta, cultured skin fibroblasts and in osteoblast cell line MG-63.

CHMP1A Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CHMP1A Antibody (N-term) Blocking Peptide - Images

CHMP1A Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the CHMP/Chmp family ofproteins which are involved in multivesicular body sorting ofproteins to the interiors of lysosomes. The initial prediction ofthe protein sequence encoded by this gene suggested that theencoded protein was a metallopeptidase. The nomenclature has beenupdated recently to reflect the correct biological function of thisencoded protein.

CHMP1A Antibody (N-term) Blocking Peptide - References

Tandon, R., et al. J. Virol. 83(20):10797-10807(2009)Li, J., et al. Cell Cycle 7(18):2886-2893(2008)Row, P.E., et al. J. Biol. Chem. 282(42):30929-30937(2007)Stuchell-Brereton, M.D., et al. Nature 449(7163):740-744(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :