

**CHMP1A Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16882a****Specification**

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**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 of proteins which are involved in multivesicular body sorting of proteins to the interiors of lysosomes. The initial prediction of the protein sequence encoded by this gene suggested that the encoded protein was a metalloproteinase. The nomenclature has been updated recently to reflect the correct biological function of this encoded 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) :