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CHMP5 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP18536b

Specification

CHMP5 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9NZZ3

CHMP5 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 51510

Other Names
Charged multivesicular body protein 5, Chromatin-modifying protein 5, SNF7 domain-containing protein 2, Vacuolar protein sorting-associated protein 60, Vps60, hVps60, CHMP5, C9orf83, SNF7DC2

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.

CHMP5 Antibody (C-term) Blocking Peptide - Protein Information

Name CHMP5

Synonyms C9orf83, SNF7DC2

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) (PubMed:14519844). 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 HIV-1 p6- and p9-dependent virus release (PubMed:<a href="http://www.uniprot.org/citations/14519844"

target="_blank">14519844).

Cellular Location
Cytoplasm, cytosol. Endosome membrane; Peripheral membrane protein. Midbody. Note=Localizes to the midbody of dividing cells (PubMed:17853893). Localized in two distinct rings on either side of the Flemming body (PubMed:17853893)

CHMP5 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CHMP5 Antibody (C-term) Blocking Peptide - Images

CHMP5 Antibody (C-term) Blocking Peptide - Background

CHMP5 belongs to the chromatin-modifying protein/chargedmultivesicular body protein (CHMP) family. These proteins arecomponents of ESCRT-III (endosomal sorting complex required fortransport III), a complex involved in degradation of surfacereceptor proteins and formation of endocytic multivesicular bodies(MVBs). Some CHMPs have both nuclear and cytoplasmic/vesiculardistributions, and one such CHMP, CHMP1A (MIM 164010), is requiredfor both MVB formation and regulation of cell cycle progression(Tsang et al., 2006 [PubMed 16730941]).

CHMP5 Antibody (C-term) Blocking Peptide - References

Wang, H.R., et al. Zhongguo Shi Yan Xue Ye Xue Za Zhi 16(2):282-285(2008)Row, P.E., et al. J. Biol. Chem. 282(42):30929-30937(2007)Huang, H.H., et al. Zhongguo Shi Yan Xue Ye Xue Za Zhi 15(4):738-742(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :Wang, H.R., et al. Oncology 71 (5-6), 423-429 (2006) :