

CHMP1A Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16882A**Specification**

CHMP1A Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9HD42
Other Accession	O921W0 , NP_002759.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21703
Antigen Region	34-61

CHMP1A Antibody (N-term) - 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

Target/Specificity

This CHMP1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 34-61 amino acids from the N-terminal region of human CHMP1A.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CHMP1A Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CHMP1A Antibody (N-term) - 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

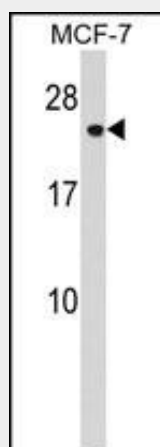
Expressed in placenta, cultured skin fibroblasts and in osteoblast cell line MG-63.

CHMP1A Antibody (N-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CHMP1A Antibody (N-term) - Images



CHMP1A Antibody (N-term) (Cat. #AP16882a) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the CHMP1A antibody detected the CHMP1A protein (arrow).

CHMP1A Antibody (N-term) - 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 metallopeptidase. The nomenclature has been updated recently to reflect the correct biological function of this encoded protein.

CHMP1A Antibody (N-term) - 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) :