CHMP4A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHMP4A, Polyclonal Antibody
Full Product Name	CHMP4A (Charged Multivesicular body Protein 4a, Chromatin-modifying Protein 4a, CHMP4a, SNF7 Homolog Associated with Alix-2, SNF7-1, hSnf-1, Vacuolar Protein Sorting-Associated Protein 32-1, Vps32-1, hVps32-1, CHMP4A, C14orf123, SHAX2) (MaxLight 405)
Product Gene Name	anti-CHMP4A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CHMP4A. Species Crossreactivity: human
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	29,804 Da
OMIM	610051
3D Structure	ModBase 3D Structure for Q9BY43
Immunogen	KLH conjugated synthetic peptide corresponding to aa205-239 at the C-terminal region of human CHMP4A.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-CHMP4A antibody	Antibodies; Transport Proteins
Applications Tested/Suitable for anti-CHMP4A antibody	Western Blot (WB)
Application Notes for anti-CHMP4A antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-CHMP4A antibody	MBS6455089 is an antibody targeting CHMP4A. Also known as CHMP4A (Charged Multivesicular body Protein 4a, Chromatin-modifying Protein 4a, CHMP4a, SNF7 Homolog Associated with Alix-2, SNF7-1, hSnf-1, Vacuolar Protein Sorting-Associated Protein 32-1, Vps32-1, hVps32-1, CHMP4A, C14orf123, SHAX2) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CHMP4A antibody	Katoh K., et al. J. Biol. Chem. 278:39104-39113(2003). Peck J.W., et al. Biochem. J. 377:693-700(2004). Li Y., et al. Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases. Zhang Q.-H., et al. Genome Res. 10:1546-1560(2000). Li W.B., et al. Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.
Other Notes	Small volumes of anti-CHMP4A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHMP4A. It may not necessarily be applicable to this product.

NCBI GI #	40548422
NCBI GeneID	29082
NCBI Accession #	NP_054888.2
UniProt Primary Accession #	Q9BY43
UniProt Secondary Accession #	Q14D22; Q32Q79; Q86SZ8; Q96QJ9; Q9P026
UniProt Related Accession #	Q9BY43
GenBank Nucleotide #	NM_014169.3
NCBI Official Full Name	charged multivesicular body protein 4a
NCBI Official Synonym Full Names	charged multivesicular body protein 4A
NCBI Official Symbol	CHMP4A
NCBI Official Synonym Symbols	SNF7; CHMP4; SHAX2; CHMP4B; SNF7-1; VPS32A; HSPC134; VPS32-1; C14orf123
UniProt Protein Name	Charged multivesicular body protein 4a
UniProt Synonym Protein Names	Chromatin-modifying protein 4a; CHMP4a; SNF7 homolog associated with Alix-2; SNF7-1; hSnf-1; Vacuolar protein sorting-associated protein 32-1; Vps32-1; hVps32-1
Protein Family	Charged multivesicular body protein
UniProt Gene Name	CHMP4A
UniProt Synonym Gene Names	C14orf123; SHAX2; CHMP4a; hSnf-1; Vps32-1; hVps32-1
UniProt Entry Name	CHM4A_HUMAN
NCBI Protein Information	charged multivesicular body protein 4a; SNF7 homolog associated with Alix-2; Snf7 homologue associated with Alix 2; chromatin modifying protein 4A; vacuolar protein sorting-associated protein 32-1
NCBI Summary for CHMP4A	CHMP4A belongs to the chromatin-modifying protein/charged multivesicular body protein (CHMP) family. These proteins are components of ESCRT-III (endosomal sorting complex required for transport III), a complex involved in degradation of surface receptor proteins and formation of endocytic multivesicular bodies (MVBs). Some CHMPs have both nuclear and cytoplasmic/vesicular distributions, and one such CHMP, CHMP1A (MIM 164010), is required for both MVB formation and regulation of cell cycle progression (Tsang et al., 2006 [PubMed 16730941]).[supplied by OMIM, Mar 2008]

UniProt Comments for CHMP4A	CHMP4A: Probable core 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. When overexpressed, membrane-assembled circular arrays of CHMP4A filaments can promote or stabilize negative curvature and outward budding. Via its interaction with PDCD6IP involved in HIV-1 p6- and p9-dependent virus release. Belongs to the SNF7 family. Chromosomal Location of Human Ortholog: 14q12 Cellular Component: internal side of plasma membrane; cytoplasmic vesicle membrane; membrane coat; late endosome membrane; cytoplasm; plasma membrane; midbody; nucleus; cytosol; endosome Molecular Function: identical protein binding; protein binding; protein homodimerization activity; lipid binding; ATPase binding Biological Process: protein polymerization; cell separation during cytokinesis; viral reproduction; vacuolar transport; membrane invagination; viral infectious cycle; posttranslational protein targeting to membrane; endosome transport; mitotic metaphase plate congression; nuclear organization and biogenesis; protein homooligomerization; membrane budding
Research Articles on CHMP4A	**1.** Chmp4, through Alix, recruits the human parainfluenza virus type 1 - C proteins to a common site on intracellular membranes and facilitates budding.
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