



Rabbit Anti-CHMP1B antibody

SL7789R

Product Name:	CHMP1B
Chinese Name:	染色质修饰蛋白1B抗体
Alias:	Charged multivesicular body protein 1b; CHM1B_HUMAN; CHMP1.5; CHMP1b; chmp1b; Chromatin-modifying protein 1b; hVps46-2; Vacuolar protein sorting-associated protein 46-2; Vps46-2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CHMP1B:101-199/199
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CHMP1B 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

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 and SPAST to the midbody of dividing cells. Involved in HIV-1 p6- and p9-dependent virus release.

Subunit:

Probable peripherally associated component of the endosomal sorting required for transport complex III (ESCRT-III). ESCRT-III components are thought to multimerize to form a flat lattice on the perimeter membrane of the endosome. Several assembly forms of ESCRT-III may exist that interact and act sequentially. Interacts with CHMP1A. Interacts with VTA1; the interaction probably involves the open conformation of CHMP1B. Interacts with CHMP2A. Interacts with VPS4A; the interaction is direct. Interacts with VPS4B; the interaction is direct. Interacts with SPAST (via MIT domain); the interaction is direct. Interacts with IST1. Interacts with MITD1. Interacts with STAMBP.

Subcellular Location:

Cytoplasm, cytosol. Endosome. Late endosome membrane; Peripheral membrane protein (Probable). Note=Localizes to the midbody of dividing cells, colocalizing with CEP55 and CHMP5. Localized at the periphery of the Fleming body.

Tissue Specificity:

Widely expressed. Expressed in pancreas, kidney, skeletal muscle, liver, lung, placenta and brain.

Similarity:

Belongs to the SNF7 family.

SWISS:

Q7LBR1

Gene ID:
57132

Database links:

[Entrez Gene: 57132](#)Human

[Entrez Gene: 67064](#)Mouse

[Entrez Gene: 689364](#)Rat

[Omim: 606486](#)Human

[SwissProt: Q5E994](#)Cow

[SwissProt: Q7LBR1](#)Human

[SwissProt: Q99LU0](#)Mouse

[Unigene: 656244](#)Human

[Unigene: 73777](#)Mouse

[Unigene: 39132](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.