10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CHMP6 Rabbit pAb

Catalog # AP97304

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96FZ7
Other Accession	Q96FZ7
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23485
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CHMP6
Epitope Specificity	1-100/201
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SNF7 family.
SUBUNIT	Probable core 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 sequentally. Interacts with VPS4A; the interaction is direct. Interacts with VPS4B; the interaction is direct. Interacts with CHMP4A, CHMP4B and CHMP4C. Interacts with SNF8, VPS25 and VPS36.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The charged multivesicular body proteins, commonly designated CHMPs, belong to the vacuolar sorting protein family and function as chromatin-modifying proteins. CHMP1-6 are all components of ESCRT (endosomal sorting complex required for transport) I, II or III complexes. These complexes are crucial for sorting endosomal articles into multivesicular bodies (MVBs), as well as required for the formation of these bodies. During HIV-1 infection, the virus uses the ESCRT-III complex to mediate budding and exocytosis of viral proteins. CHMP6, also known as VPS20, interacts with CHMP4 of the ESCRT-III complex. CHMP6 also interacts with SNF8, VPS25 and VPS36 of the ESCRT-II complex, where it regulates cargo sorting by acting as an acceptor for ESCRT-II on endosome membranes

Additional Information

Gene ID	79643
Other Names	VPS20; CHMP6_HUMAN; CHMP6; Chromatin-modifying protein 6; Vacuolar protein sorting-associated protein 20 (Vps20 | hVps20); charged multivesicular body protein 6; chromatin modifying protein 6

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	CHMP6
Synonyms	VPS20
Function	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. In the ESCRT-III complex, it probably serves as an acceptor for the ESCRT-II complex on endosomal membranes.
Cellular Location	Endomembrane system. Endosome membrane; Lipid- anchor. Late endosome membrane. Membrane; Lipid-anchor. Note=Localizes to endosomal membranes
Tissue Location	Ubiquitously expressed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.