

KD-Validated Anti-CHMP5 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2018

Product Information

Application	WB, FC
Primary Accession	Q9NZZ3
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB8030
Calculated MW	24571
Gene Name	CHMP5
Aliases	CHMP5; Charged Multivesicular Body Protein 5; Vps60; HSPC177; C9orf83; SNF7DC2; CGI-34; Vacuolar Protein Sorting-Associated Protein 60; SNF7 Domain-Containing Protein; Chromatin-Modifying Protein 5; HVps60; Chromosome 9 Open Reading Frame 83; Apoptosis-Related Protein PNAS-2; Chromatin Modifying Protein 5; SNF7 Domain Containing; PNAS-2
Immunogen	Recombinant protein of human CHMP5

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

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:[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)

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