

KD-Validated Anti-CHMP5 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI2018**Specification****KD-Validated Anti-CHMP5 Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	Q9NZZ3
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 25 kDa, observed, 30 kDa kDa
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

KD-Validated Anti-CHMP5 Mouse Monoclonal Antibody - 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	

KD-Validated Anti-CHMP5 Mouse Monoclonal Antibody - 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

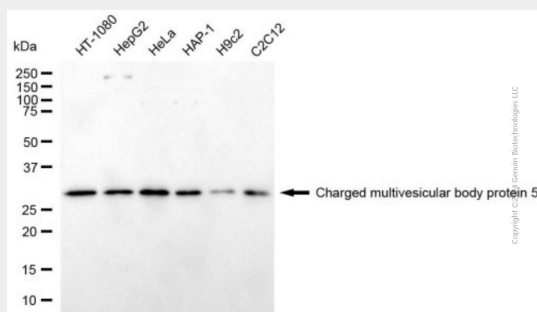
Cytoplasm, cytosol. Endosome membrane; Peripheral membrane protein. Midbody. Note=Localizes to the midbody of dividing cells (PubMed:17853893). Localized in two distinct rings on either side of the Flemming body (PubMed:17853893)

KD-Validated Anti-CHMP5 Mouse Monoclonal Antibody - Protocols

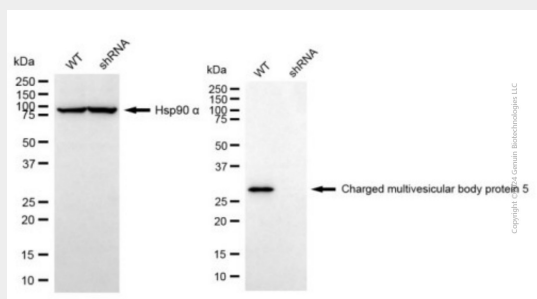
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-CHMP5 Mouse Monoclonal Antibody - Images

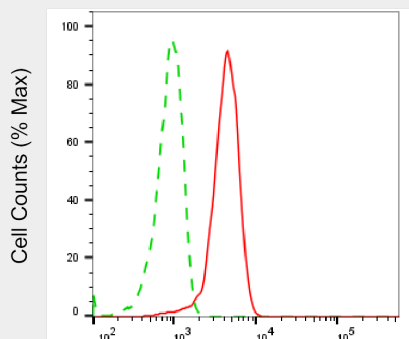


Western blotting analysis using anti-charged multivesicular body protein 5 antibody (Cat#AGI2018). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-charged multivesicular body protein 5 antibody (Cat#AGI2018, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-charged multivesicular body protein 5 antibody

(Cat#AGI2018). Charged multivesicular body protein 5 expression in wild-type (WT) and charged multivesicular body protein 5 (CHMP5) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-charged multivesicular body protein 5 antibody (Cat#AGI2018, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Charged multivesicular body protein 5-Alexa Fluor® 647

Flow cytometric analysis of Charged multivesicular body protein 5 expression in HepG2 cells using anti-Charged multivesicular body protein 5 antibody (Cat#AGI2018, 1:1,000). Green, isotype control; red, Charged multivesicular body protein 5.