

**ARG40721**  
anti-CHMP5 antibodyPackage: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes CHMP5
Tested Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CHMP5
Species	Human
Immunogen	Recombinant protein corresponding to aa. 1-219 of Human CHMP5.
Conjugation	Un-conjugated
Alternate Names	hVps60; Charged multivesicular body protein 5; SNF7 domain-containing protein 2; HSPC177; CGI-34; Vps60; PNAS-2; Chromatin-modifying protein 5; Vacuolar protein sorting-associated protein 60; SNF7DC2; C9orf83

### Application Instructions

Application table	Application	Dilution
	WB	2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	25 kDa	

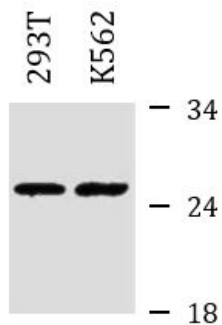
### Properties

Form	Liquid
Purification	Caprylic acid ammonium sulfate precipitation.
Buffer	0.01M PBS (pH 7.4), 0.03% Proclin 300 and 50% Glycerol.
Preservative	0.03% Proclin 300
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	CHMP5
Gene Full Name	charged multivesicular body protein 5
Background	CHMP5 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]
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 HIV-1 p6- and p9-dependent virus release. [UniProt]
Calculated Mw	25 kDa
PTM	ISGylated. Isgylation inhibits its interaction with VTA1. [UniProt]
Cellular Localization	Cytoplasm, cytosol. Endosome membrane; Peripheral membrane protein. Note=Localizes to the midbody of dividing cells. Localized in two distinct rings on either side of the Fleming body. [UniProt]

## Images



ARG40721 anti-CHMP5 antibody WB image

Western blot: 293T and K562 whole cell lysates stained with ARG40721 anti-CHMP5 antibody at 2 µg/ml dilution.