

Rabbit CHMP4B Polyclonal Antibody | anti-CHMP4B antibody

CHMP4B Antibody

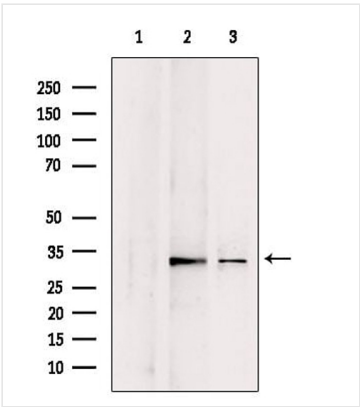
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323080	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

CHMP4B; Polyclonal Antibody; CHMP4B Antibody; Charged multivesicular body protein 4b; CHM4B_HUMAN; chmp4b; Chromatin-modifying protein 4b; hSnf7-2; hVps32-2; SNF7 homolog associated with Alix 1; SNF7-2; Vacuolar protein sorting-associated protein 32-2; Vps32-2; anti-CHMP4B antibody

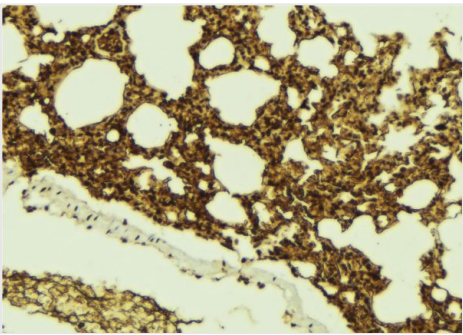
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CHMP4B antibody detects endogenous levels of CHMP4B.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	224
Applicable Applications for anti-CHMP4B antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CHMP4B.
Subcellular Location	Cytoplasm > Cytosol. Late Endosome Membrane.
Tissue Specificity	Widely expressed. Expressed at higher level in heart and skeletal muscle. Also expressed in brain, colon, thymus, spleen, kidney, liver, small intestine, placenta, lung and peripheral blood lymphocytes.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Sheep (100%), Rabbit (100%), Dog (92%), Chicken (92%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



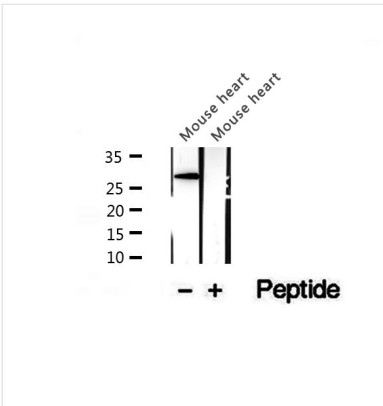
WB (Western Blot)

Western blot analysis of extracts from various samples, using CHMP4B antibody. Lane 1: rat brain treated with blocking peptide. Lane 2: Rat brain; Lane 3: Mouse brain;



IHC (Immunohistochemistry)

AAA323080 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts of mouse heart tissue, using CHMP4B antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CHMP4B antibody

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 (PubMed:12860994, PubMed:18209100). The ESCRT machinery also functions in topologically equivalent membrane fission events, such as the terminal stages of cytokinesis (PubMed:21310966). Together with SPAST, the ESCRT-III complex promotes nuclear envelope sealing and mitotic spindle disassembly during late anaphase (PubMed:26040712). Plays a role in the endosomal sorting pathway. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. When overexpressed, membrane-assembled circular arrays of CHMP4B filaments can promote or stabilize negative curvature and outward budding. CHMP4A/B/C are required for the exosomal release of SDCBP, CD63 and syndecan (PubMed:22660413).

Subunit Structure: 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 sequentially. Interacts with CHMP6 and CHMP4C. Interacts with PDCD6IP; the interaction is direct. Interacts with VPS4A; the interaction is direct. Interacts with VPS4B; the interaction is direct. Interacts with CHMP7. Interacts with CFTR; the interaction requires misfolded CFTR. Interacts with PTPN23.

Post-translational Modifications: ISGylated. Isgylation weakens its interaction with VPS4A.

Similarity: The acidic C-terminus and the basic N-terminus are thought to render the protein in a closed, soluble and inactive conformation through an autoinhibitory intramolecular interaction. The open and active conformation, which enables membrane binding and oligomerization, is achieved by interaction with other cellular binding partners, probably including other ESCRT components. Belongs to the SNF7 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	28827795
NCBI GeneID	128866
NCBI Accession #	NP_789782.1
NCBI GenBank Nucleotide #	NM_176812.4
UniProt Accession #	Q9H444; Q53ZD6; E1P5N4
Molecular Weight	Observed: 29-33 kDa Predicted: 25 kDa
NCBI Official Full Name	charged multivesicular body protein 4b
NCBI Official Synonym Full Names	charged multivesicular body protein 4B
NCBI Official Symbol	CHMP4B
NCBI Official Synonym Symbols	SNF7; CTPP3; Shax1; CHMP4A; SNF7-2; VPS32B; CTRCT31; Vps32-2; C20orf178; dJ553F4.4
NCBI Protein Information	charged multivesicular body protein 4b
UniProt Protein Name	Charged multivesicular body protein 4b
UniProt Gene Name	CHMP4B
UniProt Synonym Gene Names	C20orf178; SHAX1; CHMP4b; hSnf7-2; Vps32-2; hVps32-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/chmp4b-antibody-immunohistochemistry-western-blot-elisa/323080>