

Rabbit CHMP2A Polyclonal Antibody | anti-CHMP2A antibody

CHMP2A Antibody

CATALOG # AAA322972	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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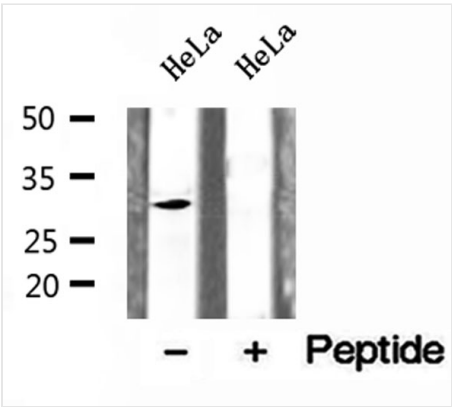
PRODUCT SYNONYMS

CHMP2A; Polyclonal Antibody; CHMP2A Antibody; BC 2; BC2; Charged multivesicular body protein 2a; CHM2A_HUMAN; CHMP2; CHMP2a; Chromatin modifying protein 2a; Chromatin-modifying protein 2a; hVps2 1; hVps2-1; putative breast adenocarcinoma marker; Putative breast adenocarcinoma marker BC-2; Putative breast adenocarcinoma marker BC2; Vacuolar protein sorting associated protein 2 1; Vacuolar protein sorting-associated protein 2-1; Vps2 1; VPS2; Vps2-1; VPS2A; anti-CHMP2A antibody

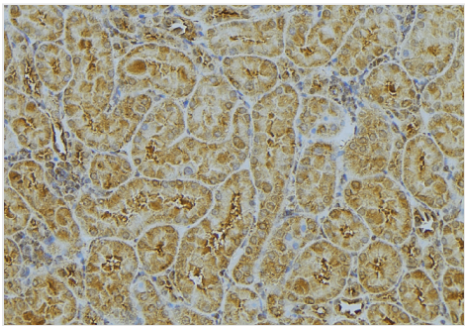
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CHMP2A antibody detects endogenous levels of CHMP2A.
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	222
Applicable Applications for anti-CHMP2A antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CHMP2A.
Subcellular Location	Endosome
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts of HeLa cells, using CHMP2A antibody.



IHC (Immunohistochemistry)
AAA322972 at 1/100 staining Mouse kidney 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.

ADDITIONAL INFORMATION

Related Product Information for anti-CHMP2A 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. 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). ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4. 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. In vitro, heteromerizes with CHMP3 (but not CHMP4) to form helical tubular structures that expose membrane-interacting sites on the outside whereas VPS4B can associate on the inside of the tubule. Interacts with CHMP1B, CHMP2B, CHMP3, CHMP4A, CHMP4B, CHMP4C and CHMP5. Interacts with VPS4A; the interaction is direct. Interacts with VPS4B; the interaction is direct. Interacts with MITD1. Interacts with VTA1; the interaction probably involves the open conformation of CHMP2A. Post-translational Modifications: ISGylated in a CHMP5-dependent manner. Isgylation weakens and inhibits its interactions with VPS4A and VTA1 respectively. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7656922
NCBI GeneID	27243
NCBI Accession #	NP_055268.1
NCBI GenBank Nucleotide #	NM_014453.3
UniProt Accession #	O43633; Q3ZTT0; B2R4W6
Molecular Weight	Observed: 32 kDa Predicted: 26 kDa
NCBI Official Full Name	charged multivesicular body protein 2a

NCBI Official Synonym Full Names	charged multivesicular body protein 2A
NCBI Official Symbol	CHMP2A
NCBI Official Synonym Symbols	BC2; BC-2; VPS2; CHMP2; VPS2A
NCBI Protein Information	charged multivesicular body protein 2a
UniProt Protein Name	Charged multivesicular body protein 2a
UniProt Gene Name	CHMP2A
UniProt Synonym Gene Names	BC2; CHMP2; CHMP2a; Vps2-1; hVps2-1

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://www.aaabiotech.com/polyclonal/chmp2a-antibody-immunohistochemistry-western-blot-elisa/322972>