

CHMP2A antibody - N-terminal region

Rabbit Polyclonal Antibody Catalog # AI14775

Product Information

Application WB Primary Accession 043633

Other Accession NM 014453, NP 055268

Reactivity Human, Mouse, Rat, Rabbit, Zebrafish, Goat, Dog, Guinea Pig, Bovine

Predicted Rat, Dog, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 25104

Additional Information

Gene ID 27243

Alias Symbol BC-2, BC2, CHMP2, VPS2, VPS2A

Other Names Charged multivesicular body protein 2a, Chromatin-modifying protein 2a,

CHMP2a, Putative breast adenocarcinoma marker BC-2, Vacuolar protein sorting-associated protein 2-1, Vps2-1, hVps2-1, CHMP2A, BC2, CHMP2

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 50 ul of distilled water. Final anti-CHMP2A antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

Precautions CHMP2A antibody - N-terminal region is for research use only and not for use

in diagnostic or therapeutic procedures.

Protein Information

Name CHMP2A

Synonyms BC2, CHMP2

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). Recruited to the reforming nuclear envelope (NE) during anaphase by LEMD2 (PubMed:28242692). ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4.

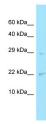
Cellular Location

Late endosome membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus envelope. Note=Localizes to the midbody of dividing cells. Localized in two distinct rings on either side of the Fleming body. Localizes to the reforming nuclear envelope on chromatin disks during late anaphase (PubMed:28242692)

References

Slater C.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases. Koczan D.,et al.Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases. Kemmer D.,et al.BMC Genomics 7:48-48(2006). Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.

Images



WB Suggested Anti-CHMP2A Antibody Titration: 1.0 µg/ml Positive Control: Fetal Lung

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.