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CHMP2A antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14775

Specification

CHMP2A antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	O43633
Other Accession	NM_014453, NP_055268
Reactivity	**Human, Mouse, Rat, Rabbit, Goat, Bovine, Guinea Pig, Dog**
Predicted	**Rat, Bovine, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**24kDa KDa**

CHMP2A antibody - N-terminal region - 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.

CHMP2A antibody - N-terminal region - 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.

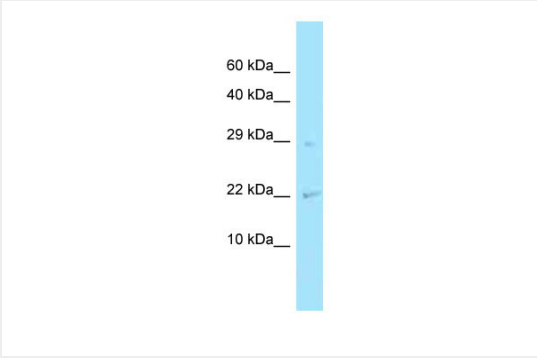
Cellular Location
Late endosome membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus envelope. Note=Localizes to the midbody of dividing cells. Localized in two distinct rings on either side of the Fleming body. Localizes to the reforming nuclear envelope on chromatin disks during late anaphase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

CHMP2A antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CHMP2A antibody - N-terminal region - Images



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

CHMP2A antibody - N-terminal region - 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.