

## Recombinant Mouse Chmp2a Protein, Myc/DDK-tagged

Cat. No. Chmp2a-2146M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Purified recombinant protein of mouse full-length charged multivesicular body protein 2A (Chmp2a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species** Mouse

**Source** HEK293

**Description** 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. Together with SPAST, the ESCRT-III complex promotes nuclear envelope sealing and mitotic spindle disassembly during late anaphase. ESCRT-III proteins are believed to mediate the necessary vesicle extrusion and/or membrane fission activities, possibly in conjunction with the AAA ATPase VPS4.

**Molecular Mass** 25.1 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	Chmp2a charged multivesicular body protein 2A [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Chmp2a
<b>Synonyms</b>	CHMP2A; charged multivesicular body protein 2A; charged multivesicular body protein 2a; mVps2; chromatin modifying protein 2A; chromatin-modifying protein 2a; vacuolar protein sorting-associated protein 2; vacuolar protein-sorting-associated protein 2; 1500016L11Rik
<b>Gene ID</b>	68953
<b>mRNA Refseq</b>	NM_026885
<b>Protein Refseq</b>	NP_081161
<b>UniProt ID</b>	Q9DB34

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