

Recombinant Human CHMP4B, GST-tagged

Cat. No. CHMP4B-11187H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHMP4B protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-224a.a.
Description	This gene encodes a member of the chromatin-modifying protein/charged multivesicular body protein (CHMP) protein family. The protein is part of the endosomal sorting complex required for transport (ESCRT) complex III (ESCRT-III), which functions in the sorting of endocytosed cell-surface receptors into multivesicular endosomes. The ESCRT machinery also functions in the final abscission stage of cytokinesis and in the budding of enveloped viruses such as HIV-1. The three proteins of the CHMP4 subfamily interact with programmed cell death 6 interacting protein (PDCD6IP, also known as ALIX), which also functions in the ESCRT pathway. The CHMP4 proteins assemble into membrane-attached 5-nm filaments that form circular scaffolds and promote or stabilize outward budding. These polymers are proposed to help generate the luminal vesicles of multivesicular bodies. Mutations in this gene result in autosomal dominant posterior polar cataracts.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

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Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION
Gene Name

CHMP4B charged multivesicular body protein 4B [Homo sapiens]

Official Symbol

CHMP4B

Synonyms

CHMP4B; charged multivesicular body protein 4B; C20orf178, chromatin modifying protein 4B , chromosome 20 open reading frame 178; charged multivesicular body protein 4b; dJ553F4.4; Shax1; SNF7 2; VPS32B; hSnf7-2; hVps32-2; chromatin modifying protein 4B; chromatin-modifying protein 4b; SNF7 homolog associated with Alix 1; Snf7 homologue associated with Alix 1; vacuolar protein sorting-associated protein 32-2; vacuolar protein-sorting-associated protein 32-2; SNF7; CTPP3; CHMP4A; SNF7-2; Vps32-2; C20orf178;

Gene ID

128866

mRNA Refseq

NM_176812

Protein Refseq

NP_789782

MIM

610897

UniProt ID

Q9H444

Chromosome Location

20q11.22

Pathway

ESCRT-III complex, organism-specific biosystem; Endocytosis, organism-specific

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biosystem; Endocytosis, conserved biosystem; Endosomal Sorting Complex Required For Transport (ESCRT), organism-specific biosystem; Membrane Trafficking, organism-specific biosystem;

Function

protein binding;

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