

# Recombinant Human CHMP2A, GST-tagged

**Cat. No.** CHMP2A-11184H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant Human CHMP2A protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 1-220a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | CHMP2A belongs to the chromatin-modifying protein/charged multivesicular body protein (CHMP) family. These proteins are components of ESCRT-III (endosomal sorting complex required for transport III), a complex involved in degradation of surface receptor proteins and formation of endocytic multivesicular bodies (MVBs). Some CHMPs have both nuclear and cytoplasmic/vesicular distributions, and one such CHMP, CHMP1A (MIM 164010), is required for both MVB formation and regulation of cell cycle progression (Tsang et al., 2006 [PubMed 16730941]). |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CHMP2A charged multivesicular body protein 2A [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>     | CHMP2A                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | CHMP2A; charged multivesicular body protein 2A; chromatin modifying protein 2A; charged multivesicular body protein 2a; BC 2; CHMP2; putative breast adenocarcinoma marker (32kD); VPS2; VPS2 homolog A (S. cerevisiae); VPS2A; vps2-1; hVps2-1; VPS2 homolog A; chromatin-modifying protein 2a; putative breast adenocarcinoma marker BC-2; vacuolar protein sorting-associated protein 2-1; BC2; BC-2; |
| <b>Gene ID</b>             | 27243                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_014453                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>      | NP_055268                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>                 | 610893                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>          | O43633                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 19q13.43                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Pathway</b>             | ESCRT-III complex, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; Endosomal Sorting Complex Required For Transport (ESCRT), organism-specific biosystem; Membrane Trafficking, organism-specific biosystem;                                                                                                                                    |
| <b>Function</b>            | protein domain specific binding;                                                                                                                                                                                                                                                                                                                                                                         |

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