

## Recombinant Human vacuolar protein sorting 4 homolog B (*S. cerevisiae*), His-tagged

**Cat. No.** VPS4B-269H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | VPS4B, 1-444aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | 1-444 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Vacuolar protein sorting-associated protein 4B, also known as VPS4B, belongs to the AAA (ATPases associated with diverse cellular activities) family. It is involved in late steps of the endosomal multivesicular bodies (MVB) pathway and recognizes membrane-associated ESCRT-III assemblies and catalyzes their disassembly, possibly in combination with membrane fission. Dominant negative mutant of VPS4B inhibit vacuolar protein sorting and also arrest HIV-1 and MLV budding. Recombinant human VPS4B protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 51.8 kDa (468aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMSSTSP NLQKAIDLAS KAAQEDKAGN<br>YEEALQLYQH AVQYFLHVVK YEAQGDKAKQ SIRAKCTEYL DRAEKLKEYL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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KNKEKKAQKP VKEGQPSPAD EKGNDSDGEG ESDDPEKKKL QNQLQGAIVI  
 ERPNVKWSDV AGLEGAKEAL KEAVILPIKF PHLFTGKRTP WRGILLFGPP  
 GTGKSYLAKE VATEANNSTF FSISSSDLVS KWLGESEKLV KNLFQLAREN  
 KPSIIFIDEI DSLCGSRSEN ESEAARRIKT EFLVQMVG VG VDNDGILVLG  
 ATNIPWVLDS AIRRRFEKRI YIPLPEPHAR AAMFKLHLGT TQNSLTEADF  
 RELGRKTDGY SGADISIIVR DALMQPVRKV QSATHFKKVR GPSRADPNHL  
 VDDLLTPCSP GDPGAIENTW MDVPGDKLLE PVVMSDMLR SLSNTKPTVN  
 EHDLLKLLKF TEDFGQEG

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [VPS4B vacuolar protein sorting 4 homolog B \(S. cerevisiae\)](#) [ [Homo sapiens](#) ]

**Official Symbol** VPS4B

**Synonyms** VPS4B; vacuolar protein sorting 4 homolog B (S. cerevisiae); SKD1, suppressor of K<sup>+</sup> transport defect 1, vacuolar protein sorting 4B (yeast); vacuolar protein sorting-associated protein 4B; SKD1B; VPS4 2; cell migration-inducing 1; vacuolar protein sorting 4B; suppressor of K<sup>+</sup> transport defect 1; cell migration-inducing gene 1 protein; suppressor of K(+) transport growth defect 1; MIG1; SKD1; VPS4-2;

**Gene ID** [9525](#)

**mRNA Refseq** [NM\\_004869](#)

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>      | NP_004860                                                                                                                                                                                                                                                                           |
| <b>MIM</b>                 | 609983                                                                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | O75351                                                                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 18q21.33                                                                                                                                                                                                                                                                            |
| <b>Pathway</b>             | CXCR4-mediated signaling events, 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>            | ATP binding; ATPase activity; ATPase activity; ATPase activity, coupled; nucleotide binding; protein C-terminus binding; protein binding;                                                                                                                                           |

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