

Recombinant Human VAC14, His-tagged

Cat. No. VAC14-29818TH **Lot. No.** (See product label)

SPECIFICATION

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|---------------------------|--|
| Product Overview | Recombinant fragment, corresponding to amino acids 640-782 of Human VAC14 with N terminal His tag; 143 amino acids, 18kDa. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 640-782 a.a. |
| Description | The content of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) in endosomal membranes changes dynamically with fission and fusion events that generate or absorb intracellular transport vesicles. VAC14 is a component of a trimolecular complex that tightly regulates the level of PtdIns(3,5)P2. Other components of this complex are the PtdIns(3,5)P2-synthesizing enzyme PIKFYVE (MIM 609414) and the PtdIns(3,5)P2 phosphatase FIG4 (MIM 609390). VAC14 functions as an activator of PIKFYVE (Sbrissa et al. |
| Conjugation | HIS |
| Tissue specificity | Ubiquitously expressed. |
| Form | Lyophilised:Reconstitute with 82 µl aqua dest. |
| Storage buffer | Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5 |

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|---------------------------------|--|
| Storage | Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles. |
| Sequences of amino acids | QNYRHAYDLIQKFGDLEVTVDFLAEVDKLVQLIECPIFTY LRLQLLDVKNNPYLIKALY GLLMLLPQSSAFQLLSHRL QCVPNPELLQTEDSLKAAPKSQKADSPSIDYAELLQHF EKVQNKHLEVRHQRSRGRGDHLDRRVVL |
| Sequence Similarities | Belongs to the VAC14 family.Contains 6 HEAT repeats. |
| GENE INFORMATION | |
| Gene Name | VAC14 Vac14 homolog (S. cerevisiae) [Homo sapiens] |
| Official Symbol | VAC14 |
| Synonyms | VAC14; Vac14 homolog (S. cerevisiae); Tax1 (human T cell leukemia virus type I) binding protein 2 , TAX1BP2; protein VAC14 homolog; ArPIKfyve; FLJ10305; |
| Gene ID | 55697 |
| mRNA Refseq | NM_018052 |
| Protein Refseq | NP_060522 |
| MIM | 604632 |
| Uniprot ID | Q08AM6 |
| Chromosome Location | 16q22.1 |
| Pathway | HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved |

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biosystem;

Function

binding; receptor activity;

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