

Datasheet for ABIN7555970

VAC14 Protein (AA 1-782) (His tag)



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Overview

Quantity:	1 mg
Target:	VAC14
Protein Characteristics:	AA 1-782
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VAC14 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat VAC14 Protein expressed in mammalian cells.
Sequence:	<p>MNPEKDFAPL TPNIVRALND KLYEKRKVAA LEIEKLVREF VAQNNTVQIK HVIQTLTSQEF</p> <p>ALSQHPHSRK GGLIGLAACS IALGKDSGLY LKELIEPVLT CFNDADSRLR YYACEALYNI</p> <p>VKVARGAVLP HFNVLFDGLS KLAADPDPNV KSGSELLDRL LKDIVTESNK FDLVSFIPLL</p> <p>RERIYSNNQY ARQFIISWIL VLESVPDINL LDYLP EILDG LFQILGDNGK EIRKMCEVVL</p> <p>GEFLKEIKKN PSSVKFAEMA NILVIHCQTT DDLIQLTAMC WMREFIQLAG RVMLPYSSGI</p> <p>LTAVLPCLAY DDRKKSIEV ANVCNQSLMK LVTPEDDELD ELRPGQRQAE PTPDDALPKQ</p> <p>EGTASGGPDG SCDSSFSSGI SVFTAASTER APVTLHLDGI VQVLNCHLSD TAIGMMTRIA</p> <p>VLKWLYHLYI KTPRKMFRT DSLFPILLQT LSEDESDEVIL KDLEVLAIEA SSPAGQTDDP</p> <p>GPLDGPDLQA SHSELQVPTP GRAGLLNTSG TKGLECSPT PTMNSYFYKF MINLLKRFSS</p> <p>ERKLLEVRGP FIIRQLCLLL NAENIFHSMA DILLREEDLK FASTMVHALN TILLTSTELF</p> <p>QLRNQLKDLK TLESQNLFC LYRSWCHNPV TTVSLCFLTQ NYRHAYDLIQ KFGDLEVTVD</p>

FLAEVDKLVQ LIECPIFTYL RLQLLDVKNN PYLIKALYGL LMLLPQSSAF QLLSHRLQCV
PNPELLQTED SLKAAPKSQK ADSPSIDYAE LLQHFEKVQN KHLEVRHQRS GRGDHLDRRV VL

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

VAC14

Alternative Name:

VAC14 ([VAC14 Products](#))

Background:

Protein VAC14 homolog (Tax1-binding protein 2),FUNCTION: Scaffold protein component of the PI(3,5)P2 regulatory complex which regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Pentamerizes into a star-shaped structure and nucleates the assembly of the complex. The pentamer binds a single copy each of PIKFYVE and FIG4 and coordinates both PIKfyve kinase activity and FIG4 phosphatase activity, being required to maintain normal levels of phosphatidylinositol 3-phosphate (PtdIns(3)P) and phosphatidylinositol 5-phosphate (PtdIns(5)P) (PubMed:33098764). Plays a role in the biogenesis of endosome carrier vesicles (ECV) / multivesicular bodies (MVB)

Target Details

	transport intermediates from early endosomes. {ECO:0000269 PubMed:15542851, ECO:0000269 PubMed:17556371, ECO:0000269 PubMed:33098764}.
Molecular Weight:	88.0 kDa
UniProt:	Q08AM6
Pathways:	Inositol Metabolic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months