

Recombinant Human VAC14 Protein (1-782), N-GST-tagged

Cat. No. VAC14-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human VAC14 full-length ORF (NP_060522.3, 1 a.a. - 782 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ (in vitro).
Species	Human
Source	Wheat Germ
ProteinLength	1-782
Description	This gene encodes a scaffold protein that is a component of the PIKfyve protein kinase complex. This complex is responsible for the synthesis of phosphatidylinositol 3,5-bisphosphate, an important component of cellular membranes, from phosphatidylinositol 3-phosphate. Mice lacking a functional copy of this gene exhibit severe neurodegeneration. Mutations in the human gene have been identified in patients with a childhood onset progressive neurological disorder characterized by impaired movement, dystonia, and striatal abnormalities.
Molecular Mass	114.4 kDa
AA Sequence	MNPEKDFAPLTPNIVRALNDKLYEKRKVAALEIEKLVREFVAQNNTVQIKHVIQTLTSQ EFALSQHPHSRKGGGLIGLAACSIALGKDSGLYLKELIEPVLTFCFNDADSRLRYACEA LYNIVKVARGAVLPHFNVLFDGLSKLAADPDPNVKSGSELLDRLLKDIVTESNKFDLV SFIPLLRRERIYSNNQYARQFIISWILVLESVPDINLLDYLPEILDGLFQILGDNGKEIRKM CEVVLGEFLKEIKKNPSSVKFAEMANILVIHCQTDDLIQLTAMCWMREFIQLAGRVM LPYSSGILTAVLPCLAYDDRKKSIEKIVANVCNQSLMKLVTPEDDELDEL R P G Q R Q A E

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PTPDDALPKQEGTASGGPDGSCDSSFSSGISVFTAASTERAPVTLHLDGIVQVLNCH
 LSDTAIGMMTRIAVLKWLHYHLYIKTPRKMFRTDSLFPILLQTLSDDESDEVILKDLEVL
 EIASSPAGQTDDPGPLDGPDLQASHSELQVPTPGRAGLLNTSGTKGLECSPSTPTM
 NSYFYKFMINLLKRFSSERKLLVVRGPFIRQLCLLLNAENIFHSMADILLREEDLKFAS
 TMVHALNTILLTSTELFQLRNQLKDLKTLESQNLFCCLYRSWCHNPVTTVSLCFLTQN
 YRHAYDLIQKFGDLEVTVDFLAEVDKLVQLIECPIFTYLRQLLDVKNNPYLIKALYGLL
 MLLPQSSAFQLLSHRLQCVNPPELLQTEDSLKAAPKSQKADSPSIDYAELLQHFEKV
 QNKHLEVRHQRSRGRGDHLDRRVVL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

VAC14 VAC14 component of PIKFYVE complex [Homo sapiens (human)]

Official Symbol

VAC14

Synonyms

VAC14; VAC14 component of PIKFYVE complex; TRX; TAX1BP2; ArPIKfyve; protein
 VAC14 homolog; Vac14, PIKFYVE complex component

Gene ID

55697

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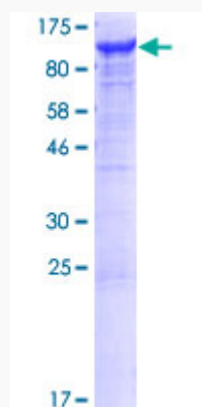
mRNA Refseq NM_018052

Protein Refseq NP_060522

MIM 604632

UniProt ID Q08AM6

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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