

Recombinant Full Length Human FIG4 Protein, GST-tagged

Cat. No. FIG4-5104HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FIG4 full-length ORF (NP_055660.1, 1 a.a. - 907 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	907 amino acids
Description	The protein encoded by this gene belongs to the SAC domain-containing protein gene family. The SAC domain, approximately 400 amino acids in length and consisting of seven conserved motifs, has been shown to possess phosphoinositide phosphatase activity. The yeast homolog, Sac1p, is involved in the regulation of various phosphoinositides, and affects diverse cellular functions such as actin cytoskeleton organization, Golgi function, and maintenance of vacuole morphology. Membrane-bound phosphoinositides function as signaling molecules and play a key role in vesicle trafficking in eukaryotic cells. Mutations in this gene have been associated with Charcot-Marie-Tooth disease, type 4J. [provided by RefSeq
Molecular Mass	130 kDa
AA Sequence	MPTAAAPIISSVQKLVLVYETRARYFLVGSNNAETKYRVLKIDRTEPKDLVIIDDRHVYT QQEVRELLGRLDLGNRTKMGQKGSSGLFRAVSAFGVVG FVRFLEGYYIVLITKRRK MADIGGHAIYKVEDTNMIYIPNDSVRVTHPDEARYLRIFQNVDLSSNFYFSYSYDLSH SLQYNLTVLRMPLEMLKSEMTQNRQESFDIFEDEGLITQGGSGVFGICSEPYMKYV

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WNGELLDIIKSTVHRDWLLYIIHGFCGQSKLLIYGRPYYVTIARRSSKFAGTRFLKRG
 ANCEGDVANEVETEQILCDASVMSFTAGSYSSYVQVRGSVPLYWSQDISTMMPKPP
 ITLDQADPFAHVAALHFDQMFQRFQSGPIIILNLVKEREKRKHERILSEELVAAVTYLNQ
 FLPPEHTIVYIPWDMAKYTKSKLCNVLDRLNVIAESVVKKTGFFVNRPDSCSYCSILRPD
 EKWNELGGCVIPTGRLQTGILRTNCVDCLDRTNTAQFMVGKCALAYQLYSLGLIDKP
 NLQFDTDAVRLFEELYEDHGDLSLQYGGSQLVHRVKTYRKIAPWTQHSKDIMQTL
 SRYYSNAFSDADRQDSINLFLGVFHPTEGKPHLWELPTDFYLHHKNTMRLLPTRRS
 YTYWWTPEVIKHLPLPYDEVICAVNLKKLIVKKFKHYEEEIDIHNEFFRPYELSSFDDT
 FCLAMTSSARDFMPKTVGIDPSPFTVRKPDETGKSVLGNKSNREEAVLQRKTAASA
 PPPPSEEAVSSSEDDSGTDREEEGSVSQRSTPVKMTDAGDSAKVTENVVQPMKE
 LYGINLSDDLSEEDFSIYSRFVQLGQSQHKQDKNSQQPCSRCSGVIKLTPISAFSQ
 DNIYEVQPPRVDRKSTEIFQAHIQASQGIMQPLGKEDSSMYREYIRNRYL

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

FIG4 FIG4 phosphoinositide 5-phosphatase [Homo sapiens (human)]

Official Symbol

FIG4

Synonyms

FIG4; FIG4 phosphoinositide 5-phosphatase; YVS; BTOP; SAC3; ALS11; CMT4J;

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KIAA0274; dJ249I4.1; polyphosphoinositide phosphatase; FIG4 homolog, SAC domain containing lipid phosphatase; FIG4 homolog, SAC1 domain containing lipid phosphatase; FIG4 homolog, SAC1 lipid phosphatase domain containing; SAC domain-containing protein 3; Sac domain-containing inositol phosphatase 3; phosphatidylinositol 3,5-bisphosphate 5-phosphatase

Gene ID	9896
mRNA Refseq	NM_014845
Protein Refseq	NP_055660
MIM	609390
UniProt ID	Q92562

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