

Recombinant Full Length Human FUK Protein, GST-tagged

Cat. No. FUK-5136HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FUK full-length ORF (NP_659496.2, 1 a.a. - 1084 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	1084 amino acids
Description	The protein encoded by this gene belongs to the GHMP (galacto-, homoserine, mevalonate and phosphomevalonate) kinase family and catalyzes the phosphorylation of L-fucose to form beta-L-fucose 1-phosphate. This enzyme catalyzes the first step in the utilization of free L-fucose in glycoprotein and glycolipid synthesis. L-fucose may be important in mediating a number of cell-cell interactions such as blood group antigen recognition, inflammation, and metastasis. While several transcript variants may exist for this gene, the full-length nature of only one has been described to date. [provided by RefSeq
Molecular Mass	144 kDa
AA Sequence	MEQPKGVDWTVIILTCQYKDSVQVFQRELEVRQKREQIPAGTLLLAVEDPEKRVGS GGATLNALLVAAEHLSARAGFTVVTSDVLHSAWILILHMGRDFPFDDCGRAFTCLPV ENPEAPVEALVCNLDCLDIMTYRLGPGSPPGVWVCSTDMLLSV PANPGISWDSFR GARVIALPGSPAYAQN HGVYLTDPQGLVLDIYYQGTEAEIQRCVRPDGRVPLVSGVV FFSVETAERLLATHVSPPLDACTYLGLDSGARPVQLSLFFDILHCMAENV TREDFLV

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GRPPELGQGDADVAGYLQSARAQLWRELRDQPLTMAYVSSGSYSYMTSSASEFLL
 SLTLPGAPGAQIVHSQVEEQQLAAGSSVVSCLLEGPVQLGPGSVLQHCHLQGPIHI
 GAGCLVTGLDTAHSKALHGRELRLDLVLQGHHTRLHGSPGHFTLVGRLDSEWRQG
 AGTYLNPWSEFFKRTGVRAWDLWDPETLPAEYCLPSARLFPVLHPSRELGPQDLL
 WMLDHQEDGGEALRAWRASWRLSWEQLQPCLDRAATLASRRDLFFRQALHKARH
 VLEARQDLSLRPLIWAAVREGCPGPLLATLDQVAAGAGDPGVAARALACVADVLCG
 MAEGRGGLRSGPAANPEWMRPFSYLECGDLAAGVEALAQERDKWLSRPALLVRA
 ARHYEGAGQILIRQAVMSAQHFVSTEQVELPGPGQWVVAECPARVDFSGGWSOTP
 PLAYELGGAVLGLAVRVDGRRPIGARARRIPEPELWLAVGPRQDEMTVKIVCRCLAD
 LRDYCQPHAPGALLKAAFCAGIVHVHSELQLSEQLLRTFGGGFELHTWSELPHGSG
 LGTSSILAGTALAALQRAAGRVVGTEALIHAVLHLEQVLTGTTGGGWQDQVGGLMPGIK
 VGRSRAQLPLKVEVEEVTVPGEFVQKLNHLLLVYTGKTRLARNLLQDVLRSWYAR
 LPAVVQNAHSLVRQTEECAEGFRQGSPLLGQCLTSYWEQKKLMPGCEPLTVRR
 MMDVLAPHVHGQSLAGAGGGGFLYLLTKEPQQKEALEAVLAKTEGLGNYSIHLVEV
 DTQGLSLKLLGTEASTCCFPF

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

FUK fucokinase [[Homo sapiens](#)]

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Official Symbol	FUK
Synonyms	FUK; fucokinase; L-fucose kinase; FLJ39408; L fucose kinase; 1110046B12Rik;
Gene ID	197258
mRNA Refseq	NM_145059
Protein Refseq	NP_659496
MIM	608675
UniProt ID	Q8N0W3

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