

Recombinant Human FUK Protein, GST-tagged

Cat. No. FUK-4547H **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	Wheat Germ
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 ENPEAPVEALVCNLDCLLDIMTYRLGPGSPPGVWVCSTDMLLSVPANPGISWDSFR GARVIALPGSPAYAQNHGYYLTDPQGLVLDIYYQGTEAEIQRCPDGRVPLVSGVV FFSVETAERLLATHVSPPLDACTYLGLDSGARPVQLSLFFDILHCMAENVTRDFLV GRPPELGQGDADVAGYLQSARAQLWREL RDQPLTMAYVSSGSYSYMTSSASEFL

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SLTLPGAPGAQIVHSQVEEQQLLAAGSSVSCLEGPVQLGPGSVLQHCHLQGPIHI
 GAGCLVTGLDTAHSKALHGRELRLDLVLQGHHTRLHGSPGHAFSTLVGRLDSEWRQG
 AGTYLNPWSEFFKRTGVRAWDLWDPETLPAEYCLPSARLFPVLHPSRELGPQDLL
 WMLDHQEDGGEALRAWRASWRLSWEQLQPCLDRAATLASRRDLFFRQALHKARH
 VLEARQDLSLRPLIWAAVREGCPGPLLATLDQVAAGAGDPGVAARALACVADVLC
 MAEGRGGLRSGPAANPEWMRPFSYLECGDLAAGVEALAQERDKWLSRPALLVRA
 ARHYEGAGQILIRQAVMSAQHFVSTEQVELPGPGQWVVAECPARVDFSGGWSOTP
 PLAYELGGAVLGLAVRVDGRRPIGARARRIPEPELWLAVGPRQDEMTVKIVCRCLAD
 LRDYCQPHAPGALLKAAFICAGIVHVHSELQLSEQLLRTFGGGFELHTWSELPHGSG
 LGTSSILAGTALAALQRAAGRVVGTEALIHAVLHLEQVLTGTTGGGWQDQVGGLMPGIK
 VGRSRAQLPLKVEVEEVTVPGEFVQKLNHLLLVYTGKTRLARNLLQDVLRSWYAR
 LPAVVQNAHSLVRQTEECAEGFRQGSPLLGQCLTSYWEQKKLMAPGCEPLTVRR
 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.

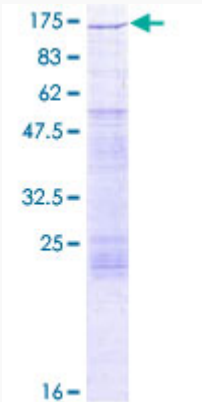
GENE INFORMATION

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
Quality Control Testing	 12.5% SDS-PAGE Stained with Coomassie Blue.