

Recombinant Full Length Human FGFR1 Protein, GST-tagged

Cat. No. FGFR1-4885HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FGFR1 full-length ORF (NP_075594.1, 1 a.a. - 731 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	731 amino acids
Description	The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described;

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however, not all variants have been fully characterized. [provided by RefSeq]

Molecular Mass	108.3 kDa
AA Sequence	MWSWKCLLFWAVLVTATLCTARPSPTLPEQDALPSSSEDDDDDDSSSEEKETDNT KPNPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTRLRWLKNNGKEFKPDH RIGGYKVRYATWSIIMDSVVPDKNYTCIVENEYGSINHTYQLDVVERSPHRPILQA GLPANKTVALGSDNVEFMCKVYSDPQPHIQWLKHIEVNGSKIGPDNLPYVQILKTAGV NTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTVLEALEERPAVMTSPL YLEIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSMQMAVHKLAKSIPLRRQVTVSAD SSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEG CFGQVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNI NLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLECYNPSHNPEEQLSSKDLV SCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFGGLARDIHHIDYYKKT NGRLPVKWMPEALFDRIYTHQSDVWSFGVLLWEFTLGGSPYPGVPVEELFKLLKE GHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLS MPLDQYSPSPDTRSSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR
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

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Gene Name	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens]
Official Symbol	FGFR1
Synonyms	FGFR1; fibroblast growth factor receptor 1; FLT2, fms related tyrosine kinase 2, KAL2; BFGFR; CD331; CEK; FLG; H2; H3; H4; H5; N SAM; Pfeiffer syndrome; FGFR1/PLAG1 fusion; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth factor receptor; basic fibroblast growth factor receptor 1; OGD; FLT2; KAL2; FGFR; FLT-2; HBGFR; N-SAM; FGFR-1; bFGF-R-1; FLJ99988;
Gene ID	2260
mRNA Refseq	NM_001174063
Protein Refseq	NP_001167534
MIM	136350
UniProt ID	P11362