

## Recombinant Full Length Human FGFR1 Protein

**Cat. No.** FGFR1-4884HF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Human FGFR1 full-length ORF (NP_075594.1) recombinant protein without tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 1,025 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>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; however, not all variants have been fully characterized. [provided by RefSeq</p> |

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| <b>Form</b>           | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b> | 81.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>    | <p>MWSWKCLLFWAVLVTATLCTARPSPTLPEQDALPSSSEDDDDDDSSSEEKETDNT<br/> KPNPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDH<br/> RIGGYKVRYATWSIIMDSVVP SDKGN YTCIVENEYGSINHTYQLDVVERSHPRPILQA<br/> GLPANKTVALG SNVEFMCKVYSDPQPHIQWLKHIEVNGSKIGPDNLPYVQILKTAGV<br/> NTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHS AWLTVLEALEERPAVMTSPL<br/> YLEIIYCTGAFLISCMVGSVIVYKMKSGTKK SDFHSQMAVHKLAKSIPLRRQVTVSAD<br/> SSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEG<br/> CFGQVVLAE AIGLDKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNII<br/> NLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLE YCYNPSHNPEEQ LSSKDLV<br/> SCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFG LARDIHHIDYYKKT<br/> NGRLPVKWM APEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGPVPEELFKLLKE<br/> GHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALT SNQEYLDLS<br/> MPLDQYSPSFPDTRSSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR</p> |
| <b>Applications</b>   | Antibody Production<br>Functional Study<br>Compound Screening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Buffer</b> | 25 mM Tris-HCl of pH8.0 containing 2% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

**Gene Name** FGFR1 fibroblast growth factor receptor 1 [ Homo sapiens ]

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | <b>FGFR1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | <b>2260</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | <b>NM_001174063</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>  | <b>NP_001167534</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>             | <b>136350</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>      | <b>P11362</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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