

## Recombinant Full Length Human FGFR4 Protein, GST-tagged

**Cat. No.** FGFR4-4927HF    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human FGFR4 full-length ORF ( AAH11847, 1 a.a. - 802 a.a.) recombinant protein with GST-tag at N-terminal. |
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| <b>Species</b> | Human |
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|---------------|---------------------------|
| <b>Source</b> | In Vitro Cell Free System |
|---------------|---------------------------|

|                      |                 |
|----------------------|-----------------|
| <b>ProteinLength</b> | 802 amino acids |
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| <b>Description</b> | <p>The protein encoded by this gene is a member of the fibroblast growth factor receptor 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 would consist 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. The genomic organization of this gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgIII domain of this protein varies between three alternate forms, as indicated for members 1-3. This particular family member preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. [provided by RefSeq</p> |
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| <b>Molecular Mass</b> | 113.96 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>    | <p>           MRLLALLGVLLSVPGPPVLSLEASEEEVELEPCCLAPSLEQQEQELTVALGQPVRLCC<br/>           GRAERGGHWYKEGSRLAPAGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQN<br/>           LTLITGDSLTSSNDDDEPKSHRDP SNRHSYPQQAPYWTHPQRMEKKLHAVPAGNT<br/>           VKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLVMESVVP SDRGTYT<br/>           CLVENAVGSIRYNYLLDV LERSPHRPILQAGLPANTTAVVGSDVELLCKVYSDAQPHI<br/>           QWLKHIVINGSSFGADGFPYVQVLKTADINSSEVEVLRLNVSAEDAGEYTCLAGNSI<br/>           GLSYQSAWLTVLPEEDPTWTAAPEARYTDIILYASGSLALAVLLLLAGLYRGQALHG<br/>           RHPRP PATVQKLSRFPLARQFSLESGSSGKSSSSSLVRGVRLSSSGPALLAGLVSLDL<br/>           PLDPLWEFPRDRLVLGKPLGEGCFGQVVR AEAFGMDPARPDQASTVAVKMLKDNA<br/>           SDKDLADLVSEMEVMKLI GRHKNIINLLGVCTQEGPLYVIVECAAKGNLREFLRARRP<br/>           PGPDLSPDGPRSSEGPLSFPVLVSCAYQVARGMQYLESRKCIHRDLAARNVLVTD<br/>           NVMKIADFG LARGVHHIDYYKKT SNGRLPVKWM APEALFDRVYTHQSDVWSFGILL<br/>           WEIFTLGGSPYPGIPVEELF SLLREGHRMDRPPHCPPELYGLMREC WHAAPSQRPT<br/>           FKQLVEALDKVLLAVSEEYLDLRLTFGPYSPSGGDASSTCSSSDSVF SHDPLPLGSS<br/>           SFPFGSGVQT         </p> |
| <b>Applications</b>   | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FGFR4 fibroblast growth factor receptor 4 [ Homo sapiens ]                                                                                                                                                                |
| <b>Official Symbol</b> | FGFR4                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | FGFR4; fibroblast growth factor receptor 4; CD334; JTK2; FGFR-4; tyrosylprotein kinase; protein-tyrosine kinase; hydroxyaryl-protein kinase; tyrosine kinase related to fibroblast growth factor receptor; TKF; MGC20292; |
| <b>Gene ID</b>         | 2264                                                                                                                                                                                                                      |
| <b>mRNA Refseq</b>     | NM_002011                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_002002                                                                                                                                                                                                                 |
| <b>MIM</b>             | 134935                                                                                                                                                                                                                    |
| <b>UniProt ID</b>      | P22455                                                                                                                                                                                                                    |

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