Recombinant Human FGFR4, MYC/DDK-tagged

Cat. No. FGFR4-32H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGFR4, transcript variant 2, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	80.9 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	FGFR4 fibroblast growth factor receptor 4 [Homo sapiens (human)]
Official Symbol	FGFR4
Synonyms	FGFR4; fibroblast growth factor receptor 4; TKF; JTK2; CD334; MGC20292; OTTHUMP00000161430; tyrosylprotein kinase; protein-tyrosine kinase; hydroxyaryl-protein kinase; tyrosine kinase related to fibroblast growth factor receptor; EC 2.7.10.1; FGFR-4; CD334 antigen
Gene ID	2264
mRNA Refseq	NM_022963
Protein Refseq	NP_075252
MIM	134935
UniProt ID	P22455
Chromosome Location	5q35.2
Pathway	Adaptive Immune System; DAP12 interactions; Downstream signal transduction

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Function	ATP binding; fibroblast growth factor binding; fibroblast growth factor-activated receptor activity

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