

Recombinant Human FGFR2, MYC/DDK-tagged

Cat. No. FGFR2-82H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGFR2, transcript variant 1, 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 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 is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene.
Molecular Mass	89.7 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	FGFR2 fibroblast growth factor receptor 2 [Homo sapiens (human)]
Official Symbol	FGFR2
Synonyms	FGFR2; fibroblast growth factor receptor 2; BEK; JWS; BBDS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM; BEK fibroblast growth factor receptor; FGF receptor; FGFR2-AHCYL1 fusion kinase protein; bacteria-expressed kinase; hydroxyaryl-protein kinase; keratinocyte growth factor receptor; protein tyrosine kinase, receptor like 14; protein tyrosine kinase, receptor like 14; NP_000132.3; EC 2.7.10.1; NP_001138385.1; NP_001138386.1; NP_001138387.1; NP_001138387.1; NP_001138388.1; NP_001138390.1; NP_001138391.1; NP_075259.4; NP_075418.1
Gene ID	2263
mRNA Refseq	NM_000141
Protein Refseq	NP_000132
MIM	176943
UniProt ID	P21802
Chromosome	10q26

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Location	
Pathway	Activated point mutants of FGFR2; Central carbon metabolism in cancer; Downstream signal transduction
Function	fibroblast growth factor binding; fibroblast growth factor-activated receptor activity; heparin binding

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