

## Active Recombinant Human FGFR2 Homodimer Protein, His&Avi tagged

Cat. No. FGFR2-39H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	FGFR2 dimer protein contains a FGFR2 extracellular domain (UniProt# P21802) fused with a proprietary dimer motif followed by a tandem His-Avi tag at the C-terminus was expressed in HEK293T.
<b>Species</b>	Human
<b>Source</b>	HEK293T
<b>ProteinLength</b>	22-377 aa
<b>Description</b>	<p>Human fibroblast growth factor receptor 2 (FGFR2) is a cell surface receptor belonging to the immunoglobulin superfamily and a transmembrane receptor tyrosine kinase that belongs to the FGFR family. FGFR2 is also known as BBDS, BEK, brefeldin A resistance factor 1 (BFR-1), cluster of differentiation 332 (CD332), CEK3, CFD1, ECT1, JWS, K-SAM, keratinocyte growth factor receptor (KGFR), TK14, and TK25. FGFR2, a Type I transmembrane protein, contains an extracellular domain with three immunoglobulin-like (Ig-like) subdomains (D1, D2 and D3), followed by a transmembrane, and an intracellular domain. Dimerization of FGFRs is necessary for activation and they can homodimerize and heterodimerize in both the presence and absence of ligand. FGFRs bind fibroblast growth factors (FGFs) leading to phosphorylation and triggering signaling cascades. Mutations in FGFR2 cause pathological ligand-independent dimerization, leading to uncontrolled signaling in both developmental disorders and cancers. Mutations in the FGFR2 gene are the cause of</p>

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several craniosynostosis syndromes and FGFR2 is involved in various forms of cancer including gastric cancer, breast cancer and lung cancer. Inhibition of FGFR2 activity offers a potential and promising approach to cancer therapy.

<b>Molecular Mass</b>	99 kDa
<b>Purity</b>	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
<b>Application</b>	Verified Applications: ELISA for FGFR2-specific antibody and BLI for fibroblast growth factor 1 (FGF-1) ligand protein binding assays. Suggested Applications: SPR for FGFR2-specific antibody and FGF-1 protein binding assays. Animal immunization, RUO.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	0.22µm filtered PBS, pH 7.4
<b>Shipping</b>	Frozen Dry Ice

## GENE INFORMATION

<b>Gene Name</b>	FGFR2 fibroblast growth factor receptor 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	FGFR2
<b>Synonyms</b>	FGFR2; fibroblast growth factor receptor 2; bacteria expressed kinase, BEK, CFD1, craniofacial dysostosis 1, Jackson Weiss syndrome, JWS, keratinocyte growth factor receptor, KGFR; CD332; CEK3; Crouzon syndrome; ECT1; K SAM; Pfeiffer syndrome; TK14; TK25; FGFR-2; FGF receptor; soluble FGFR4 variant 4; bacteria-expressed kinase; hydroxyaryl-protein kinase; keratinocyte growth factor receptor;

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BEK fibroblast growth factor receptor; protein tyrosine kinase, receptor like 14; BEK; JWS; CFD1; KGFR; BFR-1; K-SAM; FLJ98662;

**Gene ID** [2263](#)

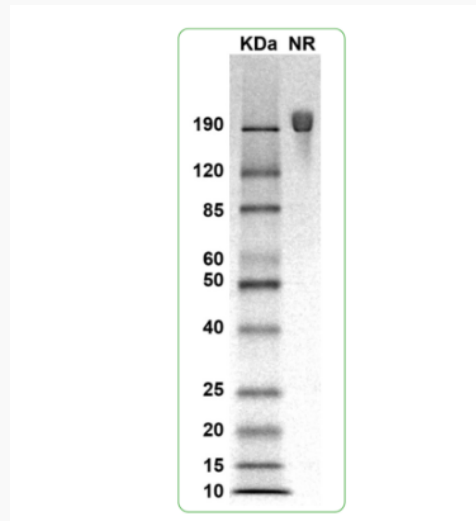
**mRNA Refseq** [NM\\_000141](#)

**Protein Refseq** [NP\\_000132](#)

**MIM** [176943](#)

**UniProt ID** [P21802](#)

**SDS-PAGE and WB**



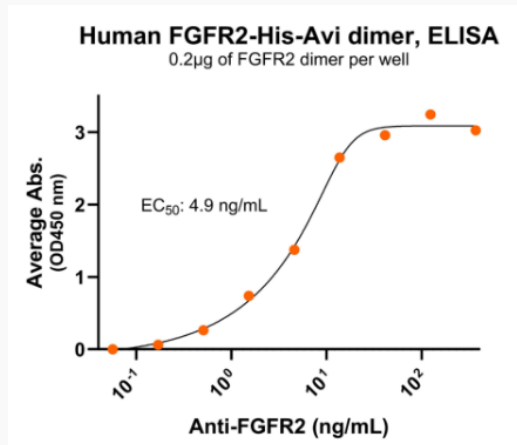
MW: Molecular Weight marker reduced condition NR: FGFR2 dimer under non-reduced condition

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**Bioactivity-Antibody  
Binding**



Immobilized human FGFR2-His-Avi dimer protein at 2 µg/mL (100 µL/well) can bind anti-human FGFR2 polyclonal antibody with half maximal effective concentration (EC<sub>50</sub>) range of 2.4-9.7 ng/mL (QC tested).

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