

Active Recombinant Human FGFR2 Homodimer Protein, His&Avi tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293T
ProteinLength	22-377 aa
Description	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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.

Molecular Mass	99 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	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.
Storage	Store at -80 centigrade.
Storage Buffer	0.22µm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	FGFR2 fibroblast growth factor receptor 2 [Homo sapiens (human)]
Official Symbol	FGFR2
Synonyms	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

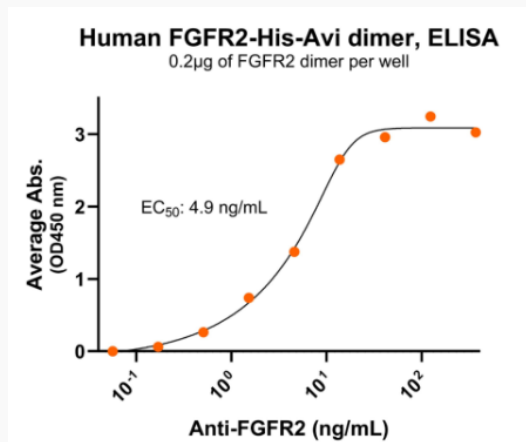
mRNA Refseq NM_000141

Protein Refseq NP_000132

MIM 176943

UniProt ID P21802

Bioactivity-Antibody Binding

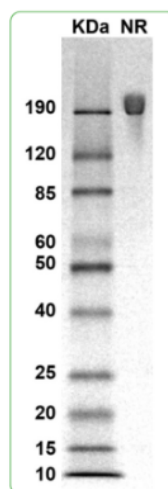


Immobilized human FGFR2-His-Avi dimer protein at 2 µg/mL (100 µL/well) can bind anti-human FGFR2 polyclonal antibody with half maximal effective concentration (EC₅₀) range of 2.4-9.7 ng/mL (QC tested).

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SDS-PAGE and WB

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

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