

Active Recombinant Human FGFR4 Homodimer Protein, His&Avi tagged

Cat. No. FGFR4-41H Lot. No. (See product label)

SPECIFICATION

Product Overview FGFR4 dimer protein contains a FGFR4 extracellular domain (UniProt# P22455) fused with a proprietary cis-dimer motif followed by a tandem His-Avi tag at the C-terminus was expressed in HEK293T.

Species Human

Source HEK293T

ProteinLength 22-369 aa

Description Human fibroblast growth factor receptor 4 (FGFR4) is a cell surface receptor belonging to the immunoglobulin superfamily and a transmembrane receptor tyrosine kinase (RTK) that belongs to the FGFR family. FGFR4 is also known as cluster of differentiation 334 (CD334), JTK2, and TKF. FGFR4 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. FGFR4 has been implicated in oncogenesis, tumor progression, and resistance to anti-tumor therapy in multiple types of cancer making it an emerging target for cancer therapeutics.

Molecular Mass 97 kDa

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Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for FGFR4-specific antibody binding assay and BLI for fibroblast growth factor 1 (FGF-1) ligand protein binding assays. Suggested Applications: SPR for FGFR4-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	FGFR4 fibroblast growth factor receptor 4 [Homo sapiens (human)]
Official Symbol	FGFR4
Synonyms	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;
Gene ID	2264
mRNA Refseq	NM_002011
Protein Refseq	NP_002002
MIM	134935

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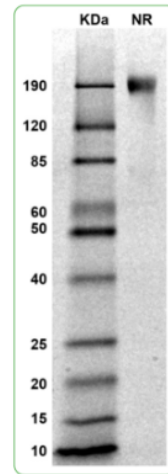
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UniProt ID

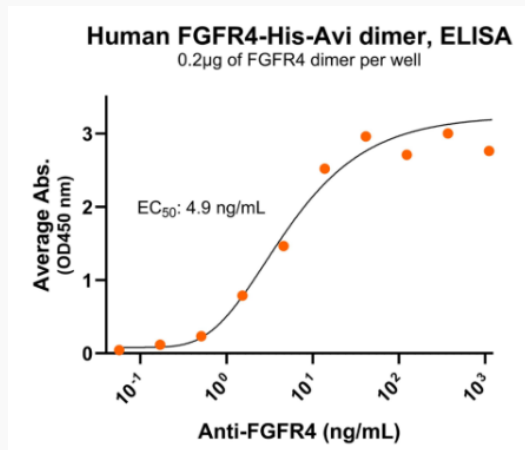
P22455

SDS-PAGE and WB



MW: Molecular Weight marker reduced condition NR: FGFR4 dimer under non-reduced condition

Bioactivity-Antibody Binding



Immobilized human FGFR4-His-Avi protein dimer at 2 µg/mL (100 µL/well) can bind

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anti-human FGFR4 polyclonal antibody with half maximal effective concentration (EC50) range of 2.4-9.7 ng/mL (QC tested).

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