

Active Recombinant Human FGFR3 Homodimer Protein, His&Avi tagged

Cat. No. FGFR3-40H Lot. No. (See product label)

SPECIFICATION

Product Overview

FGFR3 dimer protein contains a FGFR3 extracellular domain (UniProt# P22607) 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

23-375 aa

Description

Human fibroblast growth factor receptor 3 (FGFR3) is a cell surface receptor belonging to the immunoglobulin superfamily and a transmembrane receptor tyrosine kinase (RTK) that belongs to the FGFR family. FGFR3 is also known as ACH, cluster of differentiation 333 (CD333), CEK2, HSGFR3EX, and JTK4. FGFR3 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. FGFR3 is involved in diseases including achondroplasia, hypochondroplasia, and bladder cancer. Therefore, a recombinant protein mimicking the FGFR3 dimer conformation can be critical for cancer therapeutic discovery.

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Molecular Mass	96 kDa
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for FGFR3-specific antibody binding assays and BLI for fibroblast growth factor 1 (FGF-1) ligand protein binding assays. Suggested Applications: SPR for FGFR3-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	FGFR3 fibroblast growth factor receptor 3 [Homo sapiens (human)]
Official Symbol	FGFR3
Synonyms	FGFR3; fibroblast growth factor receptor 3; ACH, achondroplasia, thanatophoric dwarfism; CD333; CEK2; JTK4; FGFR-3; tyrosine kinase JTK4; hydroxyaryl-protein kinase; ACH; HSFGR3EX;
Gene ID	2261
mRNA Refseq	NM_000142
Protein Refseq	NP_000133

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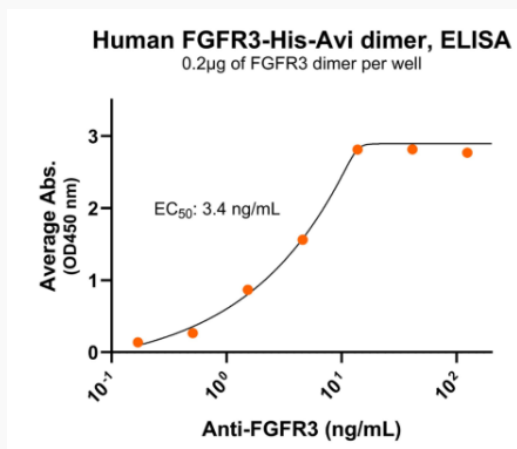
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MIM 134934

UniProt ID P22607

**Bioactivity-Antibody
Binding**



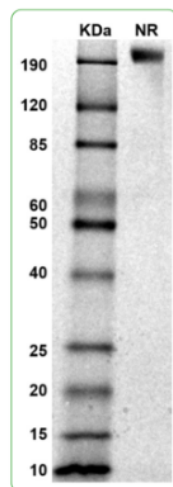
Immobilized human FGFR3-His-Avi protein dimer at 2 µg/mL (100 µL/well) can bind anti-human FGFR3 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 1.7-6.7 ng/mL (QC tested).

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SDS-PAGE and WB



MW: Molecular Weight marker reduced condition NR: FGFR3 dimer under non-reduced condition

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