Active Recombinant Human FGFR1 Protein, His&Avi tagged

Cat. No. FGFR1-67H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FGFR1 dimer protein contains a FGFR1 extracellular domain (UniProt# P11362) fused with a proprietary dimer motif followed by a tandem His-Avi tag at the C-terminus.
Species	Human
Source	HEK293T
ProteinLength	22-376 aa
Description	Human fibroblast growth factor receptor 1 (FGFR1) is a cell surface receptor belonging to the immunoglobulin superfamily and a transmembrane receptor tyrosine kinase (RTK) that belongs to the FGFR family. FGFR1 is also known as basic fibroblast growth factor receptor 1 (BFGFR), cluster of differentiation 331 (CD331), CEK, FGFBR, FLG, Fms-like tyrosine kinase 2 (FLT-2), HBGFR, HH2, HRTFDS, KAL2, N-SAM, OGD, and ECCL. FGFR1, 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. FGFR1 overexpression has been reported in a variety of cancers including up to 22% of non-small-cell lung carcinoma, 14% of urinary bladder transitional cell carcinomas, 10% of estrogen receptor positive

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	breast cancers, and 10% of squamous cell head and neck cancers. Ligand-independent FGFR1 dimerization is an important driver of hematologic malignancies, solid tumors, and developmental disorders. Inhibition of FGFRs has been an emerging target for cancer therapeutics, therefore, a recombinant protein mimicking the FGFR1 dimer conformation can be critical for cancer therapeutic discovery.
Molecular Mass	99 kDa
Homodimer/Heterodimer	Homodimer
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for FGFR1-specific antibody and BLI for fibroblast growth factor 1 (FGF-1) ligand protein binding assays. Suggested Applications: SPR for FGFR1-specific antibody and FGF-1 protein binding assays. Animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.22μm filtered PBS, pH 7.4
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	2260
Gene Name	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens (human)]

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Official Symbol	2260
Synonyms	FGFR1; fibroblast growth factor receptor 1; FLT2, fms related tyrosine kinase 2, KAL2; BFGFR; CD331; CEK; FLG; H2; H3; H4; H5; N SAM; Pfeiffer syndrome; FGFR1/PLAG1 fusion; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth factor receptor; basic fibroblast growth factor receptor 1; OGD; FLT2; KAL2; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; bFGF-R-1; FLJ99988;
mRNA Refseq	NM_001174063
Official Symbol 2	FGFR1
Gene ID 2	2260
Gene Name 2	FGFR1 fibroblast growth factor receptor 1 [Homo sapiens (human)]
mRNA Refseq 2	NM_001174063
Protein Refseq 2	NP_001167534
MIM 2	136350
UniProt ID 2	P11362
Bioactivity-Antibody Binding	Immobilized human FGFR1-His-Avi dimer protein at 2 μg/mL (100 μL/well) can bind anti-human FGFR1 monoclonal antibody with half maximal effective concentration (EC50) range of 10.1-40.4 ng/mL (QC tested).

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SDS-PAGE	MW: Molecular Weight marker reduced condition NR: FGFR1 dimer under non-reduced condition

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