

## 37-1245: Human FGFR1 / CD331 Recombinant Protein (His & Fc Tag)(Discontinued)

<b>Reactivity :</b>	Human
<b>Alternative Name :</b>	bFGF-R-1 Protein, BFGFR Protein, CD331 Protein, CEK Protein, FGFBR Protein, FGFR-1 Protein, FLG Protein, FLT-2 Protein, FLT2 Protein, HBGFR Protein, HH2 Protein, HRTFDS Protein, KAL2 Protein, N-SAM Protein, OGD Protein,

### Description

#### Source : HEK293 Cells

FGFR1, also known as CD331, belongs to the fibroblast growth factor receptor subfamily where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. Fibroblast growth factors (FGFs) (FGF1 - 1 and 16 - 23) are mitogenic signaling molecules that have roles in angiogenesis, wound healing, cell migration, neural outgrowth and embryonic development. FGFs bind heparan sulfate glycosaminoglycans, which facilitates dimerization (activation) of FGF receptors. FGFR1 is a full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of FGFR1 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. CD331 can be detected in astrocytoma, neuroblastoma and adrenal cortex cell lines. Some isoforms are detected in foreskin fibroblast cell lines, however isoform 17, isoform 18 and isoform 19 are not detected in these cells. Defects in FGFR1 are a cause of Pfeiffer syndrome, idiopathic hypogonadotropic hypogonadism, Kallmann syndrome type 2, osteoglophonic dysplasia and trigonocephaly non-syndromic. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

### Product Info

<b>Amount :</b>	Human FGFR1 / CD331 Recombinant Protein (His & Fc Tag)(Discontinued) / 100 µg
<b>Purification :</b>	> 90 % as determined by SDS-PAGE
<b>Content :</b>	Formulation Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Storage condition :</b>	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Amino Acid :</b>	Met1-Glu285

### Application Note

Measured by its ability to inhibit FGF-acidic dependent proliferation of Balb/c 3T3 mouse fibroblasts. The ED50 for this effect is typically 4-20 ng/mL

Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method.

Other pack size also available.

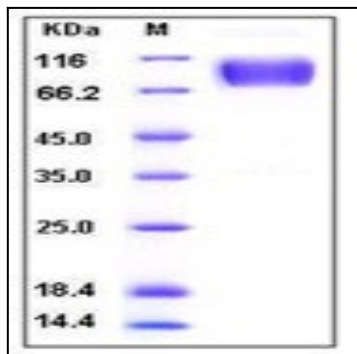


Fig 1: Human FGFR1 / CD331 Recombinant Protein (His & Fc Tag)

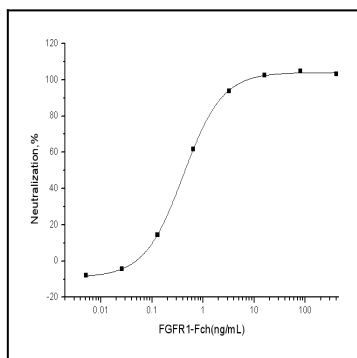


Fig 2: Human FGFR1 / CD331 Recombinant Protein (His & Fc Tag) measured by its ability to inhibit FGF-acidic dependent proliferation of Balb/c 3T3 mouse fibroblasts.