

37-1237: Human FGFR4 / FGF Receptor 4 Recombinant Protein (Fc Tag)(Discontinued)

Reactivity : Human

Alternative Name : CD334 Protein, JTK2 Protein, TKF Protein,

Description

Source : HEK293 Cells

Fibroblast growth factor receptor 4 (FGFR4) also known as CD334 antigen or tyrosine kinase related to fibroblast growth factor receptor, is a member of the fibroblast growth factor receptor family, 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. A full-length representative protein would consist 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 FGFR4/CD334 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. FGFR4/CD334 preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. FGFR4/CD334 signaling is down-regulated by receptor internalization and degradation; MMP14 promotes internalization and degradation of FGFR4/CD334. Mutations in FGFR4/CD334 lead to constitutive kinase activation or impair normal FGFR4 inactivation lead to aberrant signaling. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

Product Info

Amount : Human FGFR4 / FGF Receptor 4 Recombinant Protein (Fc Tag)(Discontinued) / 100 µg

Purification : > 97 % as determined by SDS-PAGE

Formulation Lyophilized from sterile PBS, pH 7.4

Content : Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Storage condition : 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.

Amino Acid : Met1-Asp369

Application Note

Measured by its ability to inhibit FGF acidic (aFGF / FGF1) dependent proliferation of Balb/c3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 5-25ng/mL.

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

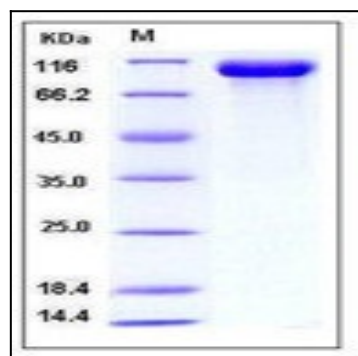


Fig 1: Human FGFR4 / FGF Receptor 4 Recombinant Protein (Fc Tag)

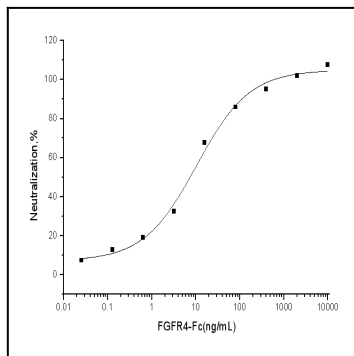


Fig 2: Human FGFR4 / FGF Receptor 4 Recombinant Protein (Fc Tag) measured by its ability to inhibit FGF acidic (aFGF / FGF1) dependent proliferation of Balb/c3T3 mouse embryonic fibroblasts.