

# Recombinant Human FGFR-3 alpha (IIIc)/CD333 Protein www.abclonal.com

Catalog No.: RP00144 Recombinant

### **Sequence Information**

Species Gene ID Swiss Prot Human 2261 P22607

## Tags

C-hFc&His

### **Synonyms**

ACH;CD333;CEK2;HSFGFR3EX;JTK4;FGFR3

### **Product Information**

**Source** Purification HEK293 cells ≥ 90 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

64.93 kDa 100-120 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

# Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Contact

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### **Background**

FGFR3, also known as CD333, is a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. FGFRs are transmembrane catalytic receptors that have intracellular tyrosine kinase activity. 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 the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in FGFR3 gene lead to craniosynostosis and multiple types of skeletal dysplasia.

### **Basic Information**

### Description

Recombinant Human FGFR-3 alpha (IIIc)/CD333 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Glu23-Gly375) of human FGFR3/CD333 (Accession #NP\_000133.1) fused with an Fc, 6×His tag at the Cterminus.

#### **Bio-Activity**

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human FGF1 at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant Human FGFR3 with a linear range of 0.5-1.5  $\mu$ g/mL.

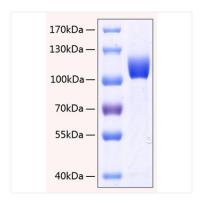
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

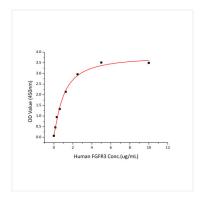
After reconstitution, the protein solution is stable at -20  $^{\circ}\text{C}$  for 3 months, at 2-8  $^{\circ}\text{C}$  for up to 1 week.

Avoid repeated freeze/thaw cycles.

# **Validation Data**



Recombinant Human FGFR-3 alpha (IIIc)/CD333 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Recombinant Human FGF1 at 5 $\mu$ g/mL (100  $\mu$ L/well) can bind Recombinant Human FGFR3 with a linear range of 0.5-1.5  $\mu$ g/mL.