

# Recombinant Human FGFR-2 beta (IIIb)/KGFR/CD332 Protein

Catalog No.: RP02531 Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 2263 P21802-3

# Tags

C-His

#### **Synonyms**

Fibroblast growth factor receptor 2 FGFR-2 KGFR K-sam Keratinocyte growth factor receptor CD332 BEK KSAM

#### **Product Information**

Source Purification

HEK293 cells  $\geq$  95 % as determined by Tris-Bis PAGE; $\geq$  95 % as

HPLC.

determined by

Calculated MW Observed MW

26.5 kDa 45-60 kDa

## **Endotoxin**

< 1 EU/ $\mu g$  of the protein by LAL method.

## **Formulation**

#### Reconstitution

Centrifuge the tube 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**

Four distinct genes encoding closely related FGF receptors, FGF R1 - 4, are known. All four genes for FGF Rs encode proteins with an N-terminal signal peptide, three immunoglobulin (Ig)-like domains, an acid-box region containing a run of acidic residues between the IgI and IgII domains, a transmembrane domain and the split tyrosine-kinase domain. Multiple forms of FGF R1 - 3 are generated by alternative splicing of the mRNAs. A frequent splicing event involving FGF R1 and 2 results in receptors containing all three Ig domains, referred to as the alpha? isoform, or only IgII and IgIII, referred to as the beta? isoform.

## **Basic Information**

#### **Description**

Recombinant Human FGFR-2 beta (IIIb)/KGFR/CD332 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg152-Glu378) of human FGFR-2 beta (IIIb)/KGFR/CD332 (Accession #P21802-3) fused with His tag at the C-terminus.

#### **Bio-Activity**

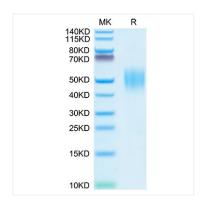
#### Storage

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

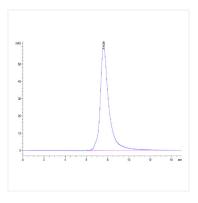
After reconstitution, the protein solution is stable at -20  $^{\circ}\text{C}$  for 3 months, at 2-8  $^{\circ}\text{C}$  for up to 1 week.

Avoid repeated freeze/thaw cycles.

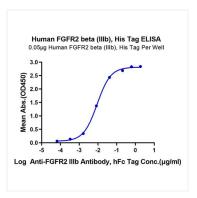
## **Validation Data**



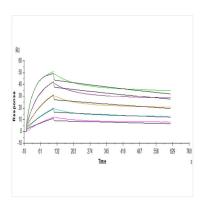
Recombinant Human FGFR-2 beta (IIIb)/KGFR/CD332 Protein was determined by Tris-Bis PAGE under reducing conditions.



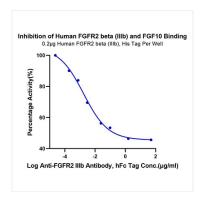
The purity of Human FGFR2 beta (IIIb) is greater than 95% as determined by SEC-HPLC.



Immobilized Human FGFR2 beta (IIIb) , His Tag at  $0.5\mu g/ml$  ( $100\mu l/Well$ ) on the plate. Dose response curve for Anti-FGFR2 IIIb Antibody, hFc Tag with the EC<sub>50</sub> of 9ng/ml determined by ELISA.



Anti-FGFR2 Antibody, hFc Tag can bind Human FGFR2 beta (IIIb), His Tag with an affinity constant of 1.98nM as determined in a SPR assay (Biacore T200).



Serial dilutions of Anti-FGFR2 IIIb Antibody were added into Human FGFR2 beta (IIIb) , His Tag: Biotinylated Human FGF10, No Tag binding reactioins. The half maximal inhibitiory concentration (IC50) is 1.74ng/ml.