Datasheet for ABIN7321218

FGFR4 Protein (Fc Tag)

1 Image

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Overview

Quantity:	100 µg
Target:	FGFR4
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This FGFR4 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Rat FGFR4/CD334 Protein (Fc Tag)(Active)
Sequence:	Met 1-Asp 367
Characteristics:	A DNA sequence encoding the rat FGFR4 (Q498D6) extracellular domain (Met 1-Asp 367) was fused with the Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA.2. Immobilized human FGF18 at 10 µg/mL (100 µl/well) can bind Rat FGFR4, The EC50 of Rat FGFR4 is 1.17 µg/mL.3. Immobilized mouse FGF18 at 10 µg/mL (100 µl/well) can bind Rat FGFR4, The EC50 of Rat FGFR4 is 0.44 µg/mL.4. Immobilized human bFGF at 10 µg/mL (100 µl/well) can bind Rat FGFR4, The EC50 of Rat FGFR4 is 0.163 µg/mL.

Target Details

Target:	FGFR4
Alternative Name:	FGFR4/CD334 (FGFR4 Products)
Background:	Background: 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.Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy Synonym: FGFR-4
Molecular Weight:	66 kDa
UniProt:	Q498D6
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Carbohydrate Homeostasis, Growth Factor Binding

Application Details

Restrictions:	For Research Use only

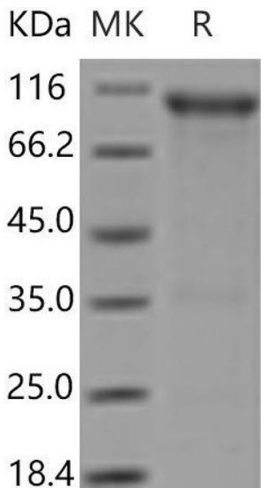
Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C

Handling

Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.