Datasheet for ABIN2181095

FGFR1 Protein (AA 22-376) (His tag)

2 Images

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Overview

Quantity:	200 µg
Target:	FGFR1
Protein Characteristics:	AA 22-376
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGFR1 protein is labelled with His tag.

Product Details

Sequence:	AA 22-376
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 42.5 kDa. The protein migrates as 60-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	FGFR1
Alternative Name:	FGF R1 (FGFR1 Products)

Target Details

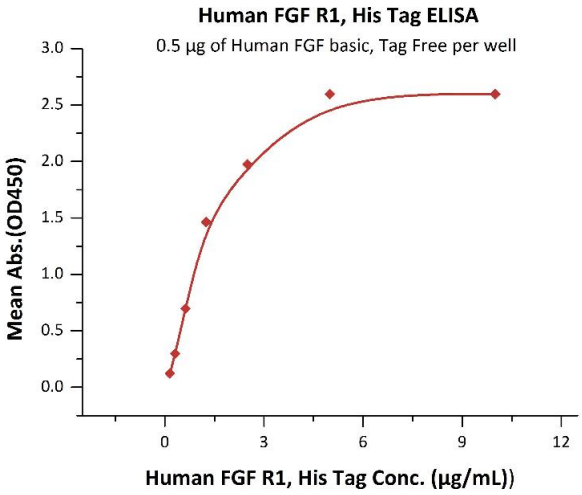
Background:	Fibroblast growth factor receptor 1 (FGFR1) is also known as basic fibroblast growth factor receptor 1(BFGFR1), FMS-like tyrosine kinase, CD331, and is a receptor tyrosine kinase whose ligands are specific members of the fibroblast growth factor family. This protein is one of several fibroblast growth factor receptors, which are related proteins that are involved in important processes such as cell division, regulation of cell growth and maturation, formation of blood vessels, wound healing, and embryonic development.The FGFR1 protein spans the cell membrane, so that one end of the protein remains inside the cell and the other end projects from the outer surface of the cell. This positioning allows the FGFR1 protein to interact with specific growth factors outside the cell and to receive signals that help the cell respond to its environment. When growth factors attach to the FGFR1 protein, the receptor triggers a cascade of chemical reactions inside the cell that instruct the cell to undergo certain changes, such as maturing to take on specialized functions. The FGFR1 protein is thought to play an important role in the development of the nervous system. This protein may also help regulate the growth of long bones, such as the large bones in the arms and legs.
Molecular Weight:	41.2 kDa
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Sensory Perception of Sound, Stem Cell Maintenance, S100 Proteins

Application Details

Restrictions:	For Research Use only

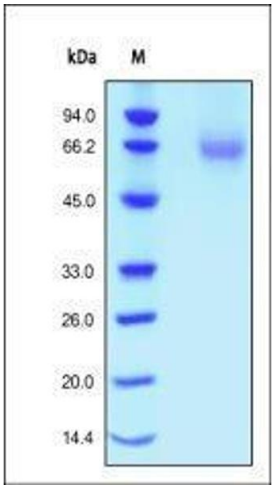
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C), After reconstitution under sterile conditions for 3 months (-70 °C).



ELISA

Image 1. Immobilized Human FGF basic, Tag Free (ABIN2444057,ABIN2180650,ABIN2180649) at 5 μg/mL (100 μL/well) can bind Human FGF R1, His Tag (ABIN2181095,ABIN2181094) with a linear range of 0.156-1.25 μg/mL (QC tested).



SDS-PAGE

Image 2. Human FGF R1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.