Datasheet for ABIN7317102

FGFR1 Protein (GST tag,His tag)

1 Image

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Overview

Quantity:	50 µg
Target:	FGFR1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGFR1 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Human FGFR1/CD331 Protein (His & GST Tag)
Sequence:	Gly 311-Arg 731
Characteristics:	A DNA sequence encoding the human FGFR1 isoform 4 (NP_075594.1) cytoplasmic domain (Gly 311-Arg 731) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 93 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	FGFR1
Alternative Name:	FGFR1/CD331 (FGFR1 Products)
Background:	Background: FGFR1; also known as CD331; belongs to the fibroblast growth factor receptor subfamily where amino acid sequence is highly conserved between members and throughout

Target Details

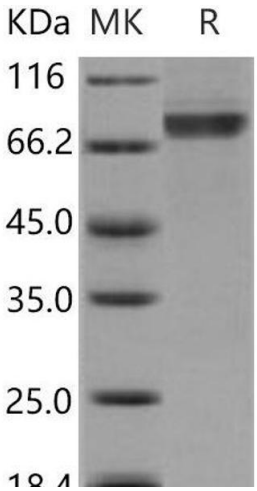
	evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. Fibroblast growth factors (FGFs) (FGF1 - 10 and 16 - 23) are mitogenic signaling molecules that have roles in angiogenesis; wound healing; cell migration; neural outgrowth and embryonic development. FGFs bind heparan sulfate glycosaminoglycans; which facilitates dimerization (activation) of FGF receptors. FGFR1 is a full-length representative protein consists 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 FGFR1 interacts with fibroblast growth factors; setting in motion a cascade of downstream signals; ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. CD331 can be detected in astrocytoma; neuroblastoma and adrenal cortex cell lines. Some isoforms are detected in foreskin fibroblast cell lines; however isoform 17; isoform 18 and isoform 19 are not detected in these cells. Defects in FGFR1 are a cause of Pfeiffer syndrome ;idiopathic hypogonadotropic hypogonadism; Kallmann syndrome type 2; osteoglophonic dysplasia and trigonocephaly non-syndromic.Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy Synonym: bFGF-R-1;BFGFR;CD331;CEK;FGFBR;FGFR-1;FLG;FLT-2;FLT2;HBGFR;HH2;HRTFDS;KAL2;N-SAM;OGD
Molecular Weight:	75 kDa
NCBI Accession:	NP_075594
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:	Frozen, Liquid
Buffer:	Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 20 % glycerol, 0.3 mM DTT
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



Western Blotting

Image 1.