

Datasheet for ABIN7539330  
**FGFR3 Protein (Soluble) (Fc Tag)**



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## Overview

Quantity:	5 µg
Target:	FGFR3
Protein Characteristics:	Soluble
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FGFR3 protein is labelled with Fc Tag.

## Product Details

Purpose:	FGFR-3(IIIa)/Fc Chimera, soluble
Sequence:	ESLGTEQRVV GRAAEVPGPE PGQQEQLVFG SGDAVELSCP PPGGGPMGPT VVWKDGTGLV PSERVLVGPQ RLQVLNASHE DSGAYSCRQR LTQRVLCHFS VRVTDAPSSG DDEDGEDEAE DTGVDTGAPY WTRPERMDKK LLAVPAANTV RFRCPAAGNP TPSISWLKNG REFRGEHRIG GIKLRHQQWS LVMESVPSD RGNVYTCVVEN KFGSIRQTYT LDVLESPHR PILQAGLPAN QTAVLGSDVE FHCKVYSDAQ PHIQWLKHVE VNGSKVGPDG TPYVTVLKTR SDKTHTCPPC PAPELLGGPS VFLFPPKPKD TLMISRTPEV TCVVVDVSHE DPEVKFNWYV DGVEVHNAKT KPREEQYNST YRVVSVLTVL HQDWLNGKEY KCKVSNKALP APIEKTISKA KGQPREPQVY TLPPSREEMT KNQVSLTCLV KGFYPSDIAV EWESNGQPEN NYKTTTPMLD SDGSFFLYSK LTVDKSRWQQ GNVFSCSVMH EALHNHYTQK SLSLSPGK
Specificity:	Chromosomal location:4q16.3
Characteristics:	Length (aa):518

## Product Details

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Purity: > 80 % by SDS-PAGE

## Target Details

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Target: FGFR3

Alternative Name: FGFR-3 ([FGFR3 Products](#))

Background: Fibroblast growth factor receptor 3, FGFR-3/ CD333, The Fibroblast growth factor receptors (FGFRs) are a family of receptor tyrosine kinases that play key roles in proliferation, differentiation, and tumorigenesis. The FGFR3(IIIb) isoform was identified as the major family member expressed in normal human urothelium. Already in 2005 a splice variant, FGFR3 $\Delta$ TM, lacking exons encoding the COOH-terminal half of immunoglobulin-like domain III and the transmembrane domain was described. Previous reports had assumed that this is would be a cancer-specific splice variant but in 2005 it was shown that FGFR3 $\Delta$ TM is a normal transcript in NHU cells and is translated, N-glycosylated, and secreted. Primary urothelium expressed high levels of FGFR3 $\Delta$ TM transcripts. In culture, levels were reduced in actively proliferating cells but increased at confluence and as cells approached senescence. Cells overexpressing FGFR3 IIIb showed FGF1-induced proliferation, which was inhibited by the addition of FGFR3 $\Delta$ TM. In bladder tumor cell lines derived from aggressive carcinomas, there were significant alterations in the relative expression of isoforms including an overall decrease in the proportion of FGFR3 $\Delta$ TM and predominant expression of FGFR3 IIIc in some cases. In summary, alternative splicing of FGFR3 IIIb in NHU cells represents a normal mechanism to generate a transcript that regulates proliferation and in bladder cancer, the ratio of FGFR3 isoforms is significantly altered.

Molecular Weight: 77 kDa

Gene ID: 2261

NCBI Accession: [NM\\_022965](#), [NP\\_075254](#)

UniProt: [P22607-3](#)

Pathways: [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Stem Cell Maintenance](#), [Growth Factor Binding](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized