

Growth Factors

Cytokines • Soluble Receptors

Monoclonal Antibodies

Polyclonal Antibodies

ELISA

Customer Services

- Production of recombinant proteins in E.coli and insect cells
- Purification of recombinant proteins and antibodies
- Reagent services: special formulation
- Bulk service
- Functional assays for growth factors and cytokines



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Your Partner in Life Science Research of
Angiogenesis and Lymphangiogenesis

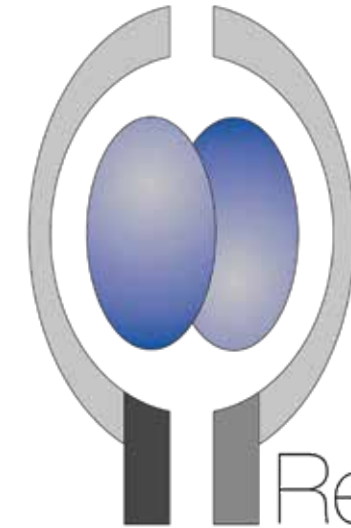
20 years of experience

Get in touch:

ReliaTech GmbH

Lindener Str. 15
38300 Wolfenbüttel
Germany

Phone: +49 (0) 5331 8586 987
Fax: +49 (0) 5331 8586 989
E-Mail: orders@reliatech.de



ReliaTech
Receptor Ligand Technologies GmbH

**Fibroblast growth
factor receptors**

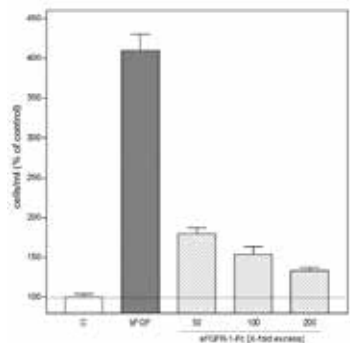
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Fibroblast

Growth Factor

Receptors

human soluble FGFR-1(IIIc)/Fc Chimera

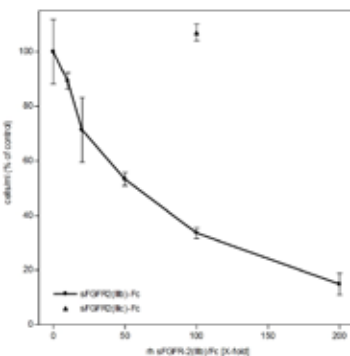


Inhibition of FGF-2 induced proliferation of HUVEC's by recombinant human soluble FGFR-1(IIIc)/Fc.

HUVECs were stimulated with 10 ng/ml FGF-2, the soluble receptor was added with a 50-200 X-fold excess.

Note: The FGF-2 induced proliferation of NHDF cells was also inhibited by addition of recombinant human soluble FGFR-1(IIIc)/Fc.

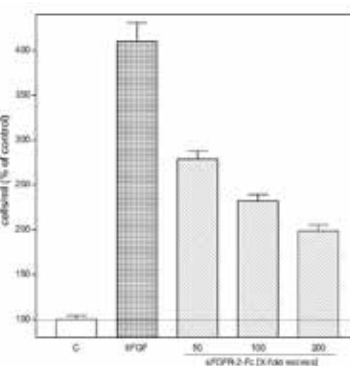
human soluble FGFR-2(IIIb)/Fc Chimera



Inhibition of FGF-10 induced proliferation of 4MBr-5 cells by recombinant human soluble FGFR-2(IIIb)/Fc.

4MBr-5 cells were stimulated with 100 ng/ml FGF-10, the soluble receptor was added with a 10-200 X-fold excess. sFGFR-2(IIIc)/Fc which does not bind FGF-10 shows no inhibitory effect.

human soluble FGFR-2(IIIc)/Fc Chimera



Inhibition of FGF-2 induced proliferation of HUVEC's by recombinant human soluble FGFR-2(IIIc)/Fc.

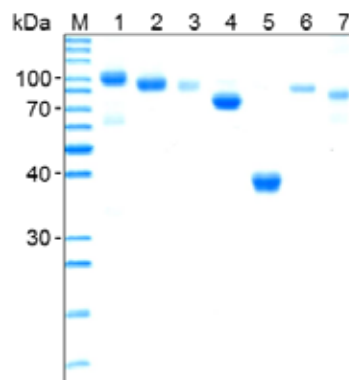
HUVECs were stimulated with 10 ng/ml FGF-2, the soluble receptor was added with a 50-200 X-fold excess.

The Fibroblast growth factor receptors (FGFRs) are a family of receptor tyrosine kinases that play key roles in proliferation, differentiation, and tumorigenesis. They contain an extracellular ligand binding domain, a single transmembrane domain, and an intracellular tyrosine kinase domain. The extracellular region of the FGFR contains three immunoglobulin-like (Ig-like) domains. Alternative mRNA splicing creates several forms of the FGF receptor which differ in their extracellular sequence and have unique ligand binding properties.

recombinant human soluble FGFRs from ReliaTech

Product	Expression System	Cat#
FGFR-1(IIIc)/Fc Chimera	Insect cells	SFC-015, SFC-016
FGFR-2(IIIb)/Fc Chimera	Insect cells	SFC-041S, SFC-041
FGFR-2(IIIc)/Fc Chimera	Insect cells	SFC-017, SFC-018
FGFR-3(IIIa)/Fc Chimera	Insect cells	SFC-023, SFC-024
FGFR-3(IIIa)	Insect cells	S01-020S, S01-020
FGFR-3(IIIc)/Fc Chimera	Insect cells	SFC-019, SFC-020
FGFR-4/Fc Chimera	Insect cells	SFC-021, SFC-022

recombinant human soluble FGFRs



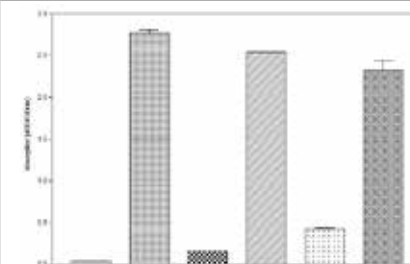
M: Marker

- 1: sFGFR-1/Fc
- 2: sFGFR-2(IIIb)/Fc
- 3: sFGFR-2(IIIc)/Fc
- 4: sFGFR-3(IIIa)/Fc
- 5: sFGFR-3(IIIa)
- 6: sFGFR-3(IIIc)/Fc
- 7: sFGFR-4/Fc

SDS-PAGE analysis of ReliaTechs recombinant human sFGFRs.

Samples were loaded in 12.5% SDS-polyacrylamide gel under reducing conditions and stained with Coomassie Brilliant Blue.

Binding of sFGFR receptors to immobilized FGF-2



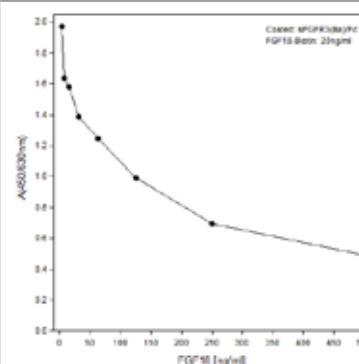
Functional ELISA

- C: Control
 1: sFGFR-1/Fc
 2: sFGFR-2(IIIb)/Fc
 3: sFGFR-2(IIIc)/Fc
 4: sFGFR-3(IIIc)/Fc
 5: sFGFR-4/Fc

FGF-2 was coated with 2 µg/ml. The soluble receptors were added with 1 µg/ml. Detection was performed with a conjugated anti-Fc antibody.

Note: sFGFR-2(IIIb) and sFGFR-4 but no other FGF receptor tested bind to immobilized FGF-10.

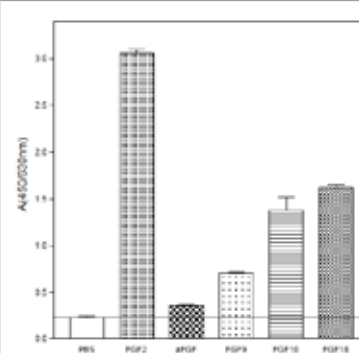
human sFGFR-3(IIIa)/Fc Chimera



ELISA

Recombinant human sFGFR-3(IIIa)/Fc was absorbed via goat anti-human Fc Ab coated plate and after extensive wash incubated with biotinylated human FGF-18 [20 ng/ml] and increasing amounts of unconjugated human FGF-18.

human soluble FGFR-3(IIIa)



Binding of FGFR-3(IIIa) to immobilized human FGF isoforms in a functional ELISA.

Recombinant human FGF isoforms were coated [200 ng/well] and recombinant human sFGFR-3(IIIa) was added [100 ng/well]. Detection was performed using a mouse anti-human FGFR-3 monoclonal antibody and a conjugated secondary antibody.