# biotechne

## Human FGFR3 (IIIb) Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 136315 Catalog Number: MAB1474

### **R**DSYSTEMS

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human FGF R3 (IIIb) in direct ELISAs. In direct ELISAs, approximately 25-50% cross-reactivity with recombinant mouse FGF R3 (IIIb) is observed and 12% with recombinant human (rh) FGF R4 is observed and no cross-reactivity with (IIIc) isoforms of rhFGF R3 or any isoforms of rhFGF R1 or rhFGF R2 is observed.
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 136315
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Pool of NS0-derived recombinant human FGF R3 alpha (IIIb) and Sf21-derived FGF R3 alpha (IIIc)
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS

#### APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

 Neutralization
 Measured by its ability to neutralize FGF R3-mediated inhibition of proliferation in the NR6R-3T3 mouse fibroblast<br/>cell line. The Neutralization Dose (ND<sub>50</sub>) is typically 0.5-2 µg/mL in the presence of 300 ng/mL Recombinant Human<br/>FGF R3 (IIIb) Fc Chimera, 0.3 ng/mL Recombinant Human FGF acidic, and 10 µg/mL heparin.

#### DATA



Reconstitution	Reconstitute at 0.5 mg/mL in steme 1 bo.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>
	1 month, 2 to 8 °C under sterile conditions after reconstitution.
	6 months -20 to -70 °C under sterile conditions after reconstitution

#### BACKGROUND

Fibroblast Growth Factor Receptor 3 (FGF R3) is a type I transmembrane tyrosine kinase receptor that binds FGF ligands along with heparin or heparin sulfateproteoglycans as cofactors. A segment of the membrane proximal Ig-like domain can be encoded by two different exons resulting in (IIIb) or (IIIc) isoforms. The IIIb or IIIc isoforms recognize FGF-1, -2, -4, -8b, -8e, -8f, -9,and -17b. FGF R3 plays a role in skeletal, brain, lung, intestine, kidney, and skin development.

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