

**DESCRIPTION**

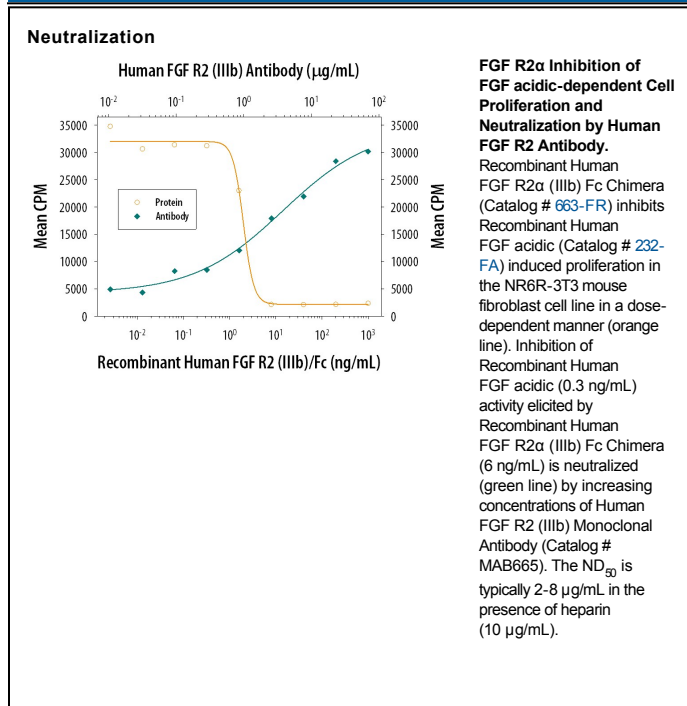
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Reacts with multiple isoforms of human FGF R2 although it shows a marked preference for human FGF R2 (IIIb) isoforms in some assays as described below. In direct ELISAs, displays a three-fold preference for FGF R2 (IIIb) isoforms over (IIIc) isoforms. Shows approximately 50% cross-reactivity with recombinant mouse (rm) FGF R2 isoforms and no cross-reactivity with any isoforms of recombinant human (rh) FGF R1 or rhFGF R3. In Western blots, shows approximately 25% cross-reactivity with rhFGF R2 (IIIc) isoforms, 100% cross-reactivity with all isoforms of rmFGF R2 and no cross-reactivity with any isoforms of rhFGF R1, rhFGF R3, or rhFGF R4. Neutralizes the bioactivity of rhFGF R2 (IIIb) isoforms.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 98707
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human FGF R2 isoforms and <i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human FGF R2 isoforms
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	Recombinant Human FGF R2β (IIIb) Fc Chimera (Catalog # 665-FR)
<b>Neutralization</b>		Measured by its ability to neutralize FGF R2α-mediated inhibition of proliferation in the NR6R-3T3 mouse fibroblast cell line. The Neutralization Dose (ND <sub>50</sub> ) is typically 2-8 µg/mL in the presence of 6 ng/mL Recombinant Human FGF R2α (IIIb) Fc Chimera, 0.3 ng/mL Recombinant Human FGF acidic, and 10 µg/mL heparin.

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

FGF R2 is a transmembrane tyrosine kinase that functions as a receptor for several FGF family proteins. The extracellular domain includes three ( $\alpha$  isoforms) or two ( $\beta$  isoforms) Ig-like domains. Alternative exon usage results in IIIb or IIIc isoforms that differ in their membrane proximal Ig-like domain.