

DESCRIPTION

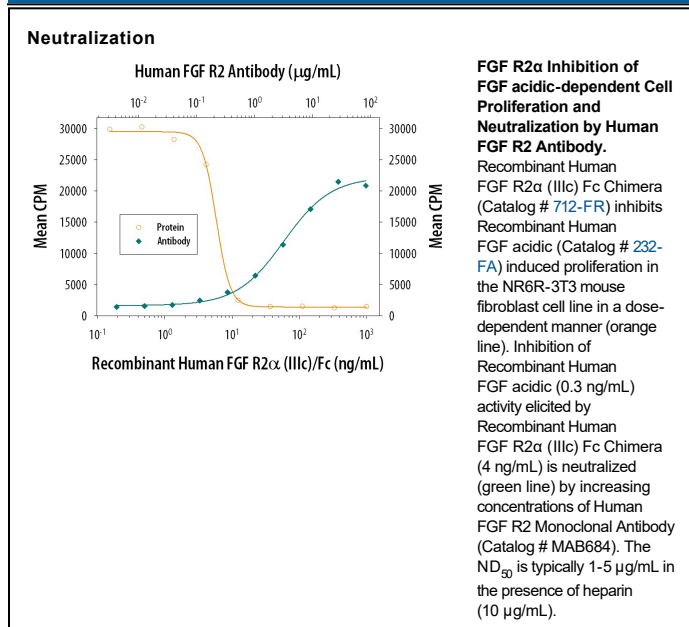
Species Reactivity	Human
Specificity	Detects α isoforms (3 Ig-like domains) and β isoforms (2 Ig-like domains) of human FGF R2 in direct ELISAs and Western blots. In direct ELISAs, this antibody reacts with all isoforms of rhFGF R2 but shows approximately a 4-fold preference for (IIIc) isoforms. Approximately 100% cross-reactivity with recombinant mouse FGF R2, 15% cross-reactivity with recombinant human (rh) FGF R1 (β isoforms), and no cross-reactivity with rhFGF R1 (α isoforms), rhFGF R3, or rhFGF R4 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 98725
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human FGF R2 isoforms and Mouse myeloma cell line NS0-derived recombinant human FGF R2 isoforms
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m 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 μ m 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.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	Recombinant Human FGF R2 α (IIIb) Fc Chimera (Catalog # 663-FR) Recombinant Human FGF R2 α (IIIc) Fc Chimera (Catalog # 712-FR) Recombinant Human FGF R2 β (IIIb) Fc Chimera (Catalog # 665-FR) Recombinant Human FGF R2 β (IIIc) Fc Chimera (Catalog # 684-FR)
Flow Cytometry	2.5 μ g/10 ⁶ cells	Kato III human cell line
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Neutralization	Measured by its ability to neutralize FGF R2 α -mediated inhibition of proliferation in the NR6R-3T3 mouse fibroblast cell line. The Neutralization Dose (ND ₅₀) is typically 1-5 μ g/mL in the presence of 4 ng/mL Recombinant Human FGF R2 α (IIIc) Fc Chimera, 0.3 ng/mL Recombinant Human FGF acidic, and 10 μ g/mL heparin.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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 style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

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