# Human FGF R2 Antibody

Monoclonal Mouse $IgG_1$ Clone # 98739

Catalog Number: MAB6843

## DESCRIPTION

| | |
|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects all isoforms of human FGF R2 (α and β, IIIb and IIIc). In direct ELISAs, approximately 25-50% cross-reactivity with mouse FGF R2 and no cross-reactivity with any isoform of recombinant human (rh) FGF R1, rhFGF R3, or rhFGF R4 is observed. |
| **Source** | Monoclonal Mouse $IgG_1$ Clone # 98739 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | *S. frugiperda* insect ovarian cell line *Sf* 21-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 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.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

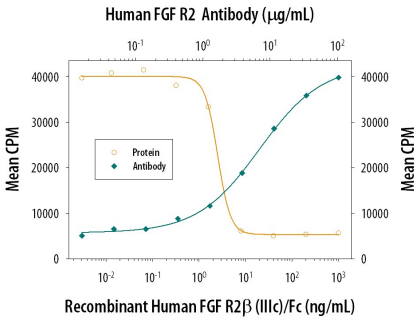
## APPLICATIONS

**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.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Flow Cytometry** | 2.5 µg/$10^6$ cells | Kato III human cell line |
| **Immunohistochemistry** | 8-25 µg/mL | See Below |
| **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 R2β-mediated inhibition of proliferation in the NR6R-3T3 mouse fibroblast cell line. The Neutralization Dose ($ND_{50}$) is typically 0.1-0.5 µg/mL in the presence of 6 ng/mL Recombinant Human FGF R2β (IIIc) Fc Chimera, 0.3 ng/mL Recombinant Human FGF acidic, and 10 µg/mL heparin. | |

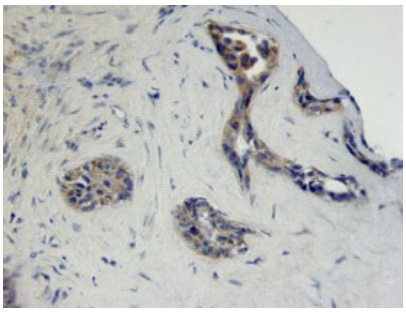
## DATA

### Neutralization




**FGF R2β Inhibition of FGF acidic-dependent Cell Proliferation and Neutralization by Human FGF R2 Antibody.** Recombinant Human FGF R2β (IIIc) Fc Chimera (Catalog # 684-FR) inhibits Recombinant Human FGF acidic (Catalog # 232-FA) induced proliferation in the NR6R-3T3 mouse fibroblast cell line in a dose-dependent manner (orange line). Inhibition of Recombinant Human FGF acidic (0.3 ng/mL) activity elicited by Recombinant Human FGF R2β (IIIc) Fc Chimera (6 ng/mL) is neutralized (green line) by increasing concentrations of Human FGF R2 Monoclonal Antibody (Catalog # MAB6843). The $ND_{50}$ is typically 0.1-0.5 µg/mL in the presence of heparin (10 µg/mL).

### Immunohistochemistry



**FGF R2 in Human Adenocarcinoma.** FGF R2 was detected in immersion fixed paraffin-embedded sections of human adenocarcinoma using Mouse Anti-Human FGF R2 Monoclonal Antibody (Catalog # MAB6843) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

## 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.<br>*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.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |



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## BACKGROUND

Fibroblast Growth Factor Receptor 2 (FGF R2) is one of four closely related transmembrane tyrosine kinases (FGF R1-4) that function as receptors for the fibroblast growth factor family. Multiple isoforms are generated by alternative mRNA splicing resulting in extracellular domains with three (α isoforms) or two (β isoforms) Ig-like domains. In addition, alternative exon usage in the Ig III (membrane proximal) domain results in IIIb or IIIc isoforms.



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