

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human FGF R3 (IIIc) in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with with recombinant human (rh) FGF R2 (IIIc), recombinant mouse (rm) FGF R2 (IIIc) and rmFGF R3 (IIIc) is observed. In Western blots (non-reducing conditions only), 50-100% cross-reactivity with rhFGF R2 (IIIc), rmFGF R2 (IIIc) and rmFGF R3 (IIIc) is observed. Does not cross-react with the IIIb isoforms of rhFGF R3, rmFGF R3, rhFGF R2 or rmFGF R2. No cross-reactivity with any isoforms of rhFGF R1 or rhFGF R4 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 136312
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human FGF R3 α (IIIc)
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 as a 0.2 μ m filtered solution in PBS.

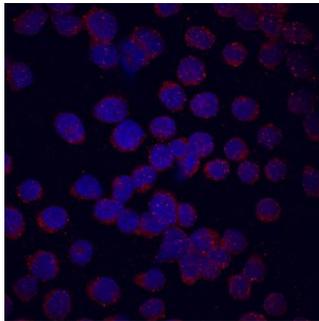
APPLICATIONS

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 R3 (IIIc) Fc Chimera (Catalog # 766-FR)
Immunocytochemistry	8-25 μ g/mL	See Below
Immunohistochemistry	8-25 μ g/mL	Immersion fixed paraffin-embedded sections of human bladder cancer tissue

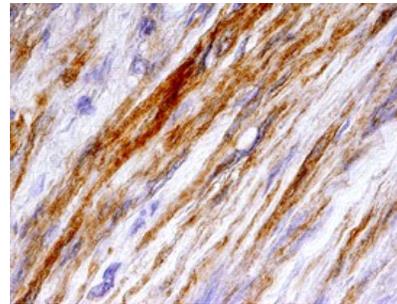
DATA

Immunocytochemistry



FGF R3 in U937 Human Cell Line. FGF R3 was detected in immersion fixed U937 human histiocytic lymphoma cell line using Mouse Anti-Human FGF R3 (IIIc) Monoclonal Antibody (Catalog # MAB7662) at 10 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces and cytoplasm. View our protocol for [Fluorescent ICC Staining of Non-adherent Cells](#).

Immunocytochemistry



FGF R3 in Human Bladder Cancer Tissue. FGF R3 was detected in immersion fixed paraffin-embedded sections of human bladder cancer tissue using Mouse Anti-Human FGF R3 (IIIc) Monoclonal Antibody (Catalog # MAB7662) at 25 μ g/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). Specific staining was localized to smooth muscle cells. 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. *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 R3 is a type I transmembrane tyrosine kinase receptor that binds FGF ligands along with heparin or heparin sulfate proteoglycans as co-factors. 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.