Human FGF R1 (IIIb) Antibody

Monoclonal Mouse IgG_1 Clone # 133111

Catalog Number: MAB765

DESCRIPTION

Species Reactivity	Human
Specificity	Detects IIIb isoforms of human FGF R1. In direct ELISAs and Western blots, this antibody detected IIIb but not IIIc isoforms of human FGF R1, human FGF R2, and mouse FGF R2. In direct ELISA, approximately 20% cross-reactivity was observed with recombinant human (rh) FGF R3 (IIIb). No cross-reactivity was observed with rhFGF R4 or with IIIIc isoforms of rhFGF R1, rhFGF R2, rmFGF R2, or rhFGF R3.
Source	Monoclonal Mouse IgG_1 Clone # 133111
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	A mixture of purified isoforms of recombinant human FGF R1 extracellular domains
Endotoxin Level	<0.1 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.

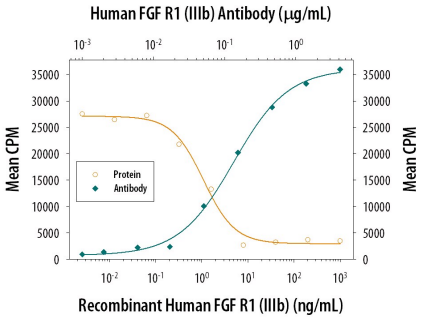
APPLICATIONS

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 µg/mL	Recombinant Human FGF R1α (IIIb) Fc Chimera (Catalog # 655-FR)
Neutralization	Measured by its ability to neutralize FGF R1α-mediated inhibition of proliferation in the NR6R-3T3 mouse fibroblast cell line. The Neutralization Dose (ND_{50}) is typically 0.075-0.3 µg/mL in the presence of 6 ng/mL Recombinant Human FGF R1α (IIIb) Fc Chimera, 0.3 ng/mL Recombinant Human FGF acidic, and 10 µg/mL heparin.	

DATA

Neutralization



FGF R1α Inhibition of FGF acidic-dependent Cell Proliferation and Neutralization by Human FGF R1 Antibody. Recombinant Human FGF R1α (IIIb) Fc Chimera (Catalog # 655-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 R1α (IIIb) Fc Chimera (6 ng/mL) is neutralized (green line) by increasing concentrations of Human FGF R1 (IIIb) Monoclonal Antibody (Catalog # MAB765). The ND_{50} is typically 0.075-0.3 µg/mL in the presence of heparin (10 µg/mL).

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.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month from date of receipt, 2 to 8 °C, reconstituted. ● 6 months from date of receipt, -20 to -70 °C, reconstituted.

BACKGROUND

FGF R1 occurs as multiple isoforms. The extracellular domain consists of three (α isoforms) or two (β isoforms) immunoglobulin-like domains. In addition, the membrane-proximal Ig-like domain can be encoded by alternative exons yielding (IIIb) or (IIIc) isoforms.