

Anti-FGFR1 Antibody (4C661)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	4C661
Purification:	Protein A

Applications

1. Anti-FGFR1 rabbit monoclonal antibody at 1:500 dilution.

-Lane A: 293T Whole Cell Lysate.

-Lane B: HepG2 Whole Cell lysate.

-Lysates/proteins at 30 µg per lane.

-Secondary

-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.

-Developed using the Odyssey technique.

-Performed under reducing conditions.

-Predicted band size:55 kDa.

-Observed band size:62 kDa.

Verified Activity: 2. Mouse FGFR1 was immunoprecipitated using:

-Lane A:0.5 mg Hela Whole Cell Lysate.

-2 µL anti-Mouse FGFR1 rabbit monoclonal antibody and 15 µl of 50 % Protein G agarose.

-Primary antibody:

-Anti-Mouse FGFR1 rabbit monoclonal antibody, at 1:100 dilution.

-Secondary antibody:

-Clean-Blot[®] IP Detection Reagent (HRP) at 1:1000 dilution.

-Developed using the DAB staining technique.

-Performed under reducing conditions.

-Predicted band size: 55 kDa.

-Observed band size: 70 kDa

Application: IP,WB

Recommended WB: 1:500-1:2000; IP: 4-6 µL/mg of lysate

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Mouse FGRL1 / FGFR5 protein (TMPY-01360)
Antigen Species:	Mouse
Synonyms:	fibroblast growth factor receptor-like 1;FGFR5;FGFR5 β ;FGFR5 γ ;FGFR5beta;FGFR5gamma
Biology Area:	Receptor Tyrosine Kinases (RTKs)

Research Background

Fibroblast growth factor receptor-like 1 (FGRL1) also known as Fibroblast growth factor receptor 5 (FGFR5), is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution. A full-length representative protein would consist of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. A unique feature of FGRL1/FGFR5 is that it does not contain an intracellular tyrosine kinase domain. Some muscle types, including the muscles of the tongue and the diaphragm, express FGRL1/FGFR5 at relatively high level. In contrast, the heart and the skeletal muscles of the limbs, as well as many other organs (brain, lung, liver, kidney, gut) express Fgfr1 only at basal level. It is conceivable that FGRL1/FGFR5 interacts with other Fgfrs, which are expressed in cartilage and muscle, to modulate FGF signaling.

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