

Anti-FGFR(Y766) Antibody

Catalog Number: M00098-2

About FGFR1

Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Phosphorylates PLCG1, FRS2, GAB1 and SHB. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes phosphorylation of SHC1, STAT1 and PTPN11/SHP2. In the nucleus, enhances RPS6KA1 and CREB1 activity and contributes to the regulation of transcription. FGFR1 signaling is down-regulated by IL17RD/SEF, and by FGFR1 ubiquitination, internalization and degradation.

Overview

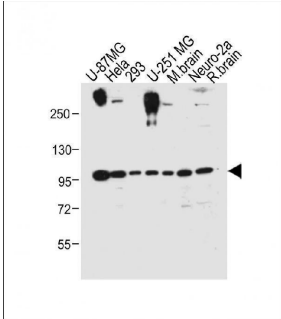
Product Name	Anti-FGFR(Y766) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-FGFR(Y766) Antibody (Catalog # M00098-2). Tested in IHC-P, WB application(s). This antibody reacts with Human, Mouse, Rat.
Application	IHC-P, WB
Clonality	Polyclonal
Formulation	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Storage Instructions	Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P11362

Technical Details

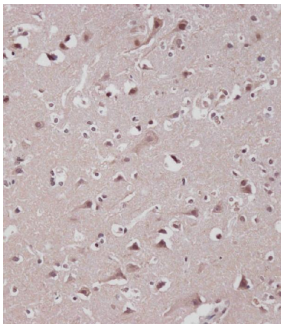
Immunogen	This FGFR (Y766) antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 741-770 amino acids from the human region of human FGFR (Y766).
Predicted Reactive Species	Chicken, Zebrafish
Isotype	Rabbit IgG
Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Suggested Dilutions	WB: 1:1000

IHC-P: 1:100

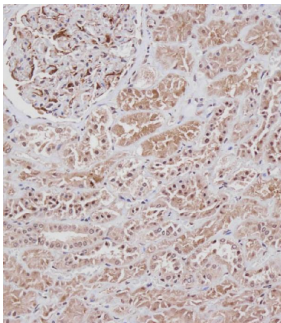
Anti-FGFR(Y766) Antibody (M00098-2) Images



All lanes : Anti-FGFR (Y766) Antibody at 1:1000 dilution
Lane 1: U-87MG whole cell lysate
Lane 2: HeLa whole cell lysate
Lane 3: 293 whole cell lysate
Lane 4: U-251 MG whole cell lysate
Lane 5: Mouse brain tissue lysate
Lane 6: Neuro-2a whole cell lysate
Lane 7: Rat brain tissue lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 92 kDa
Blocking/Dilution buffer: 5% NFDN/TBST.



Immunohistochemical analysis of M00098-2 on paraffin-embedded Human brain tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9.0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunohistochemical analysis of M00098-2 on paraffin-embedded Human kidney tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9.0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

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For Research Use Only. Not for use in diagnostic procedures.