

Anti-FGFR2 Antibody (4V380)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human, Mouse, Rat
Conjugation:	Unconjugated
Clone:	4V380
Purification:	Affinity-chromatography

Applications

	Western Blot -Positive WB detected in: Rat Brain whole cell lysate, Rat Lung whole cell lysate, Mouse Brain whole cell lysate
Verified Activity:	-All lanes: FGFR2 Antibody at 1:1000 -Secondary: Goat polyclonal to rabbit IgG at 1/50000 dilution -Predicted band size: 93, 87, 93, 77, 92, 89, 86, 29, 80, 93, 97, 92, 41, 80, 80, 77, 80 kDa -Observed band size: 145 kDa
Application:	ELISA, WB
Recommended	WB:1:500-1:5000.

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: Human FGFR2
Antigen Species:	Human
Gene ID:	2263
Uniprot ID:	P21802
Synonyms:	CD332;FGFR2 alpha;BEK;CFD1;BBDS;FGFR2 α ;FGF R2a;TK14;BFR-1;KGFR;FLJ98662;JWS;ECT1;FGFR2 α (IIIb);CEK3;K-SAM;TK25
Biology Area:	Neuroscience, Cancer, Cardiovascular, Developmental biology, Signal transduction, Stem cells

Research Background

Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of cell proliferation, differentiation, migration and apoptosis, and in the regulation of embryonic development. Required for normal embryonic patterning, trophoblast function, limb bud development, lung morphogenesis, osteogenesis and skin development. Plays an essential role in the regulation of osteoblast differentiation, proliferation and apoptosis, and is required for normal skeleton development. Promotes cell proliferation in keratinocytes and immature osteoblasts, but promotes apoptosis in differentiated osteoblasts. Phosphorylates PLCG1, FRS2 and PAK4. 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-

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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. FGFR2 signaling is down-regulated by ubiquitination, internalization and degradation. Mutations that lead to constitutive kinase activation or impair normal FGFR2 maturation, internalization and degradation lead to aberrant signaling. Over-expressed FGFR2 promotes activation of STAT1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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