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Phospho-FGFR1-Y654

Reactivity: Mouse

Tested applications:WB

Recommended Dilution:WB 1:500 - 1:2000

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding Y654 of human FGF Receptor 1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

FGFR1; CEK; FLG; OGD; FLT2; KAL2; BFGFR; CD331; FGFBR; FLT-2; HBGFR; N-SAM; FGFR-1; bFGF-R-1; FLJ99988

Catalog #:AP0037

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:2260

Isotype: IgG

Swiss Prot:P11362

Purity: Affinity purification

For research use only.

Background:

Fibroblast growth factors (FGFs) produce mitogenic and angiogenic effects in target cells by signaling through cell surface receptor tyrosine kinases. There are four members of the FGF receptor family: FGFR1 (flg), FGFR2 (bek, KGFR), FGFR3, and FGFR4. Each receptor contains an extracellular ligand binding domain, a transmembrane domain, and a cytoplasmic kinase domain (1). Following ligand binding and dimerization, the receptors are phosphorylated at specific tyrosine residues (2). Seven tyrosine residues in the cytoplasmic tail of FGFR1 can be phosphorylated: Tyr463, 583, 585, 653, 654, 730, and 766. Tyr653 and Tyr654 are important for catalytic activity of activated FGFR and are essential for signaling (3). The other phosphorylated tyrosine residues may provide docking sites for downstream signaling components such as Crk and PLC (4,5).Autophosphorylation of Tyr766 of FGFR1 is critical for phospholipase C (PLC) binding and activation and also plays a role in the negative regulation of FGFR1 activity in vivo (6).

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