FGF Receptor 1 Antibody

**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: FGFR-1 (flg), FGFR-2 (bek, KGFR), FGFR-3 and FGFR-4. 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 FGFR-1 can be phosphorylated: Tyr463, Tyr583, Tyr585, Tyr653, Tyr654, Tyr730 and Tyr766. Tyrosines 653 and 654 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 PLCγ (4,5).

**Specificity/Sensitivity:** FGF Receptor 1 Antibody detects transfected levels of FGF receptor 1. It does not cross-react with other FGF receptor family members.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal residues of human FGF receptor 1. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

**Applications:** Western blotting 1:1000
**Molecular Wt.** 120 kDa, 145 kDa

**Recommended Antibody Dilutions:**
Western blotting 1:1000
Immunoprecipitation 1:50

For application specific protocols please see the web page for this product at www.cellsignal.com.

**IMPORTANT:** For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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For Research Use Only. Not For Use In Diagnostic Procedures.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C.

Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

**Applications Species Cross-Reactivity**

**Molecular Wt.** 120 kDa, 145 kDa

**Recommended Antibody Dilutions:**
Western blotting 1:1000
Immunoprecipitation 1:50

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Please visit www.cellsignal.com for a complete listing of recommended companion products.