

FGF Receptor 1 (D8E4) XP[®] Rabbit mAb (Biotinylated)



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

Applications W Endogenous	Species Cross-Reactivity* H, M, R, Mk	Molecular Wt. 92, 120, 145 kDa	Isotype Rabbit IgG
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Description: This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated FGF Receptor 1 (D8E4) XP[®] Rabbit mAb #9740.

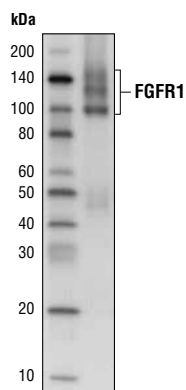
Background: Fibroblast growth factors (FGFs) produce mitogenic and angiogenic effects in target cells by signaling through cell surface receptor tyrosine kinases. There are four members of the FGF receptor family: FGFR1 (flg), FGFR2 (bek, KGFR), FGFR3, and FGFR4. Each receptor contains an extracellular ligand binding domain, a trans-membrane 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 PLCγ (4,5).

Specificity/Sensitivity: FGF Receptor 1 (D8E4) XP[®] Rabbit mAb (Biotinylated) recognizes endogenous levels of total FGF receptor 1 protein. This antibody does not cross-react with other FGF receptor family members.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy terminus of human FGF receptor 1 protein.

Background References:

- (1) Powers, C.J. et al. (2000) *Endocr Relat Cancer* 7, 165-97.
- (2) Reilly, J.F. et al. (2000) *J Biol Chem* 275, 7771-8.
- (3) Mohammadi, M. et al. (1996) *Mol Cell Biol* 16, 977-89.
- (4) Mohammadi, M. et al. (1991) *Mol Cell Biol* 11, 5068-78.
- (5) Larsson, H. et al. (1999) *J Biol Chem* 274, 25726-34.



Western blot analysis of extracts from A-204 cells using FGF Receptor 1 (D8E4) XP[®] Rabbit mAb (Biotinylated). Streptavidin-HRP #3999 was used for western detection.

Entrez-Gene ID #2260
Swiss-Prot Acc. #P11362

Storage: Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.

***Species cross-reactivity other than human is determined by western using the unconjugated antibody.**

Biotinylated antibodies are designed to be detected using streptavidin or anti-biotin antibody conjugates.

Recommended Antibody Dilutions:

Western blotting 1:1000

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

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

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

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA—Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.