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

100 μl(10 western blots)



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New 03/13

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Applications	Species Cross-Reactivity*	Molecular Wt.	lsotype	
W	H, M, R, Mk	92, 120, 145 kDa	Rabbit IgG	
Endogenous				

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 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_Y (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-bioitin 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.

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 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
 C—C. elegans
 Hr—horse
 AII—all species expected
 Species enclosed in parentheses are predicted to react based on 100% homology.