

FGF Receptor 1 (D8E4) XP® Rabbit mAb (PE Conjugate)

✓ 100 µl
 (50 tests)

rev. 11/15/13



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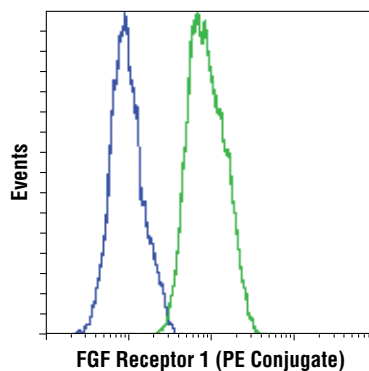
Applications	Species Cross-Reactivity*	Isotype
F Endogenous	H, M, R, Mk	Rabbit IgG

Description: This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The 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 (PE Conjugate) detects 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.



Flow cytometric analysis of HT-29 cells (blue) and A-204 cells (green) using FGF Receptor 1 (D8E4) XP® Rabbit mAb (PE Conjugate).

Entrez-Gene ID #2260
 UniProt Acc. #P11362

Storage: Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. *Do not aliquot the antibodies. Protect from light. Do not freeze.*

***Species cross-reactivity is determined by western blot using the unconjugated antibody.**

Recommended Antibody Dilutions:

Flow Cytometry 1:50

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 companion products.

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.