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


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P11362	Entrez-Gene Id: 2260
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
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.	
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.	
Product 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 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 PLCγ (4,5).	
Background References	1. Powers, C.J. et al. (2000) <i>Endocr Relat Cancer</i> 7, 165-97. 2. Reilly, J.F. et al. (2000) <i>J Biol Chem</i> 275, 7771-8. 3. Mohammadi, M. et al. (1996) <i>Mol Cell Biol</i> 16, 977-89. 4. Mohammadi, M. et al. (1991) <i>Mol Cell Biol</i> 11, 5068-78. 5. Larsson, H. et al. (1999) <i>J Biol Chem</i> 274, 25726-34.	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected	
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