## FGF Receptor 2 (D4H9) Rabbit mAb





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Applications: W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 92, 145	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P21802	Entrez-Gene Id: 2263
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #88906.				
Specificity/Ser	nsitivity	FGF Receptor 2 (D4H9) Rabbit mAb recognizes endogenous levels of total FGF receptor 2 protein. This antibody does not cross-react with other FGF receptor family members.				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a recombinant protein that is centered around amino acid 440 of human FGF Receptor 2 protein.				
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).				
		exons 8 (IIIb) and 9 (IIIo tissue distribution and corresponding FGFR2 <u>c</u> Syndrome, Crouzon Sy Syndrome, and Jacksor	c). Alternative splic biological activitie gene cause syndro ndrome, Beare-Ste n-Weiss Syndrome	ligand specificity largely ing is cell type specific, i s (6,7). Research studies mes characterized by fa evenson Cutis Gyrata Syr (8-10). Investigators hav astric, endometrial, and	resulting in isoform have shown that m cial and limb defect ndrome, Pfeiffer Syr ve also observed mu	s showing various nutations in the s, including LADD ndrome, Apert
Background R	eferences	1. Powers, C.J. et al. (20 2. Reilly, J.F. et al. (2000 3. Mohammadi, M. et a 4. Mohammadi, M. et a 5. Larsson, H. et al. (199 6. Muh, S.J. et al. (2002) 7. Coutts, J.C. and Galla 8. Jeftha, A. et al. (2004 9. Wilkinson, C.C. et al. 10. Slavotinek, A. et al. 11. Katoh, M. (2009) <i>J I</i>	) J Biol Chem 275, Il. (1996) Mol Cell E Il. (1991) Mol Cell E 99) J Biol Chem 274 J Biol Chem 277, 5 gher, J.T. (1995) Im ) J Clin Pediatr Der (2012) Childs Nerv (2009) Am J Med C	7771-8. Biol 16, 977-89. Biol 11, 5068-78. 4, 25726-34. 50143-54. <i>munol Cell Biol</i> 73, 584- 128, 173-6. <i>Syst</i> 28, 1221-6. 5enet A 149A, 1814-7.	9.	
Species Reacti	vity	Species reactivity is det	termined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	Buffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat
Applications K	ley	W: Western Blotting IP	: Immunoprecipita	ition		

Cross-Reactivity Key	H: Human		
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