4574 Store at -20C

## FGF Receptor 3 (C51F2) Rabbit



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

<b>Applications:</b> WB, IP, IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 165, 145 and 125	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P22607	Entrez-Gene Id 2261	
Product Usage Information	Ар	plication				Dilution	
		estern Blotting				1:1000	
	lm	munoprecipitation				1:50	
	lm	munohistochemistry	(Paraffin)			1:50	
	lm	Immunofluorescence (Immunocytochemistry)				1:200	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
	For	For a carrier free (BSA and azide free) version of this product see product #94065.					
Specificity / Sensit		FGF Receptor 3 (C51F2) Rabbit mAb detects endogenous levels of FGF Receptor 3 pdoes not cross-react with other related family members.				protein. This antibody	
Source / Purification		Monoclonal antibody is produced by immunizing animals with a GST-FGFR-3 cytoplasmic domain fusion protein.					
Background	thro (flg), don dim the and othe	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 PLCy (4,5).					
	dys and also	Activating mutations within fibroblast growth factor receptor 3 (FGFR-3) are responsible for human skeletal dysplasias including achondroplasia and the neonatal lethal syndromes thanatophoric dysplasia types I and II (6). Several of these same FGFR-3 mutations as well as overexpression of FGFR-3 proteins have also been identified somatically in human cancers, including multiple myeloma, bladder carcinoma and cervical cancer (7). Thus, FGFR-3 may represent a potential target for therapy.					
Background Refer	2. F 3. M 4. M 5. L 6. V	owers, C.J. et al. (2 deilly, J.F. et al. (2004 dohammadi, M. et al dohammadi, M. et al arsson, H. et al. (19 Vilkie, A.O. et al. (20 dijyake, M. et al. (200	0) J Biol Chem 27 . (1996) Mol Cell I . (1991) Mol Cell I 99) J Biol Chem 2 02) Am J Med Ge	5, 7771-8. Biol 16, 977-89. Biol 11, 5068-78. 274, 25726-34.	865-71.		

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

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FGF Receptor 3 (C51F2) Rabbit mAb (#4574) Datasheet Without Images Cell Signaling Technology

**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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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