e at -20C	FGF Receptor 3 Antibody	C T	Cell Signaling			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com			
		Support:	877-678-TECH (8324)			
#3160		Web:	info@cellsignal.com cellsignal.com			
#3		3 Trask Lane Danvers Mas	Danvers Massachusetts 01923 USA			

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit	UniProt ID: #P22607	Entrez-Gene Id: 2261		
Product Usage Information		Application Western Blotting		Dilution 1:1000				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Ser	nsitivity	FGF Receptor 3 Antibody detects endogenous levels of total FGF receptor 3 protein. This antibody does not cross-react with other FGF receptor family members.						
Source / Purifi	ication		lies are produced by immunizing animals with a synthetic peptide corresponding to ounding His111 of human FGF receptor 3. Antibodies are purified by protein A and romatography.					
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).						
		FGFR-3 participates in a diverse array of biological processes, including cell growth, differentiation, and migration. Activating mutations in FGFR-3 are associated with multiple myeloma, cervical carcinoma, and bladder cancer and it represents a potential target for therapy (6).						
Background R	eferences	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. 6. Knowles, M.A. (2008) <i>Future Oncol</i> 4, 71-83.						
Species Reacti	ivity	Species reactivity is d	etermined by testir	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot l	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 K	(ey	W: Western Blotting						
Cross-Reactivi	ity Key	H: Human						
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		All other trademarks more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for		
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