## 13771

## Phospho-FGF Receptor (Tyr653/654) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> W, W-S	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 120, 145	Source/Isotype: Rabbit	UniProt ID: #P11362	Entrez-Gene Id: 2260
Product Usage Information		<b>Application</b> Western Blotting Simple Western™		<b>Dilution</b> 1:1000 1:10 - 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-FGF Receptor (Tyr653/654) Antibody detects endogenous levels of FGF receptors only when phosphorylated at tyrosines 653/654. This antibody detects phosphorylated FGF Receptors 2 and 4 when expressed exogenously. Based on sequence comparisons, reactivity with FGF Receptor 3 is possible but has not been experimentally confirmed. This antibody also cross-reacts with activated PDGF receptor and insulin/IGF-I receptors.				
Species predic based on 100% homology		Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr653/654 of human FGFR-1 (the corresponding sequence is the same in FGFR-2, -3 and -4). Antibodies are purified by protein A and peptide affinity chromatography.				
Fibroblast growth factors (FGFs) produce mitogenic and angiogenic effects in target cells by through cell surface receptor tyrosine kinases. There are four members of the FGF receptor FGFR1 (flg), FGFR2 (bek, KGFR), FGFR3, and FGFR4. Each receptor contains an extracellular light binding domain, a transmembrane domain, and a cytoplasmic kinase domain (1). Following binding and dimerization, the receptors are phosphorylated at specific tyrosine residues (2). tyrosine residues in the cytoplasmic tail of FGFR1 can be phosphorylated: Tyr463, 583, 585, 6730, and 766. Tyr653 and Tyr654 are important for catalytic activity of activated FGFR and are for signaling (3). The other phosphorylated tyrosine residues may provide docking sites for downstream signaling components, such as Crk and PLCγ (4,5).					eceptor family: Ilular ligand- Ilowing ligand Iues (2). Seven 3, 585, 653, 654, 8 and are essential	
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 Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approv	ed 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		<b>W:</b> Western Blotting <b>W-S:</b> Simple Western™				
Cross-Reactivity Key		H: Human				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.				
Limited Uses		Except as otherwise e	expressly agreed in a writing signed by a legally authorized representative of CST,			

the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's

terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.