**Limited Uses** 

## Phospho-FGF Receptor (Tyr653/654) (55H2) Mouse mAb



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

Applications: W, W-S	Reactivity: H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 120, 145	Source/Isotype: Mouse IgG2b	UniProt ID: #P11362	Entrez-Gene Id 2260	
Product Usage Information		<b>Application</b> Western Blotting Simple Western™		<b>Dilution</b> 1:1000 1:50 - 1:250			
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°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Phospho-FGF Receptor (Tyr653/654) (55H2) Mouse mAb 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. The antibody also cross-reacts slightly with activated PDGF and insulin/IGF-I receptors.					
Species predicted based on 100% se homology		Mouse, Rat					
ource / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr653/654 of human FGF receptor-1. The corresponding sequence is identical in FGF receptor-2, -3 and -4.					
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		2. Reilly, J.F. et al. (200 3. Mohammadi, M. et 4. Mohammadi, M. et	al. (2000) <i>Endocr Relat Cancer</i> 7, 165-97. (2000) <i>J Biol Chem</i> 275, 7771-8. M. et al. (1996) <i>Mol Cell Biol</i> 16, 977-89. M. et al. (1991) <i>Mol Cell Biol</i> 11, 5068-78. al. (1999) <i>J Biol Chem</i> 274, 25726-34.				
Species Reactivity	/	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffer			T: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat X 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 Mk: Monkey					
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