

#3476 Store at -20°C

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


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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, W-S	H Mk	Endogenous	120, 145	Mouse IgG2b	#P11362	2260

Product Usage Information	Application Western Blotting Simple Western™	Dilution 1:1000 1:50 - 1:250
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.	
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 to react based on 100% sequence homology:	Mouse, Rat	
Source / 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	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 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	
Applications Key	WB: Western Blotting W-S: Simple Western™	
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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	

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