## Phospho-FGF Receptor 1 (Tyr766) (1E5) Rabbit mAb



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Applications: F WB	Reactivity: H	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 120, 145	Source/Isotype: Rabbit IgG	UniProt ID: #P11362	Entrez-Gene Id: 2260	
Product Usage Information	Ap	pplication			Dilution		
	We	estern Blotting			1:1000		
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 / Sensitiv	pho	sphorylated at tyros	ine 766. The anti	) Rabbit mAb detects tra body may cross-react w ing EGFR and insulin/IG	ith other FGFR family	,	
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr766 of human FGF receptor-1.					
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).					
		Autophosphorylation of Tyr766 of FGFR1 is critical for phospholipase C (PLC) binding and activation and also plays a role in the negative regulation of FGFR1 activity in vivo (6).					
Background Referen	res 1 P	Powers C 1 et al (2	000) Endocr Rela	at Cancer 7, 165-97.			

1. Powers, C.J. et al. (2000) Endocr Relat Cancer 7, 165-97. Background References

2. Reilly, J.F. et al. (2000) J Biol Chem 275, 7771-8.

3. Mohammadi, M. et al. (1996) Mol Cell Biol 16, 977-89.

4. Mohammadi, M. et al. (1991) Mol Cell Biol 11, 5068-78.

5. Larsson, H. et al. (1999) J Biol Chem 274, 25726-34.

6. Partanen, J. et al. (1998) Genes Dev 12, 2332-44.

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

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

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

WB: Western Blotting **Applications Key** 

**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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