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EGF Receptor (15F8) Rabbit mAb

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Applications: Reacti WB H		MW (kDa): 175	Source/Isotype: Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956	
Product UsageApplicationInformationWestern Blotting		Dilution 1:1000				
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 EGF Receptor (15F8) Rabbit mAb det not recognize other proteins of the Ert			tects endogenous levels of EGF receptor proteins. The antibody does bB family.			
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human EGF receptor.				esponding to	
Background	The epidermal growth factor (EGF) receptor is a transmembrane tyrosine kinase that belongs to the HER/ErbB protein family. Ligand binding results in receptor dimerization, autophosphorylation, activation of downstream signaling, internalization, and lysosomal degradation (1,2). Phosphorylation of EGF receptor (EGFR) at Tyr845 in the kinase domain is implicated in stabilizing the activation loop, maintaining the active state enzyme, and providing a binding surface for substrate proteins (3,4). c-Src is involved in phosphorylation of EGFR at Tyr845 (5). The SH2 domain of PLCy binds at phospho-Tyr992, resulting in activation of PLCy-mediated downstream signaling (6). Phosphorylation of EGFR at Tyr1045 creates a major docking site for the adaptor protein c-Cbl, leading to receptor ubiquitination and degradation following EGFR activation (7,8). The GRB2 adaptor protein binds activated EGFR at phospho-Tyr1068 (9). A pair of phosphorylated EGFR residues (Tyr1148 and Tyr1173) provide a docking site for the Shc scaffold protein, with both sites involved in MAP kinase signaling activation (2). Phosphorylation of EGFR at specific serine and threonine residues attenuates EGFR kinase activity. EGFR carboxy-terminal residues Ser1046 and Ser1047 are phosphorylated by CaM kinase II; mutation of either of these serines results in upregulated EGFR tyrosine autophosphorylation (10).					
Background References	 Hackel, P.O. et al. (1999) <i>Curr Opin Cell Biol</i> 11, 184-9. Zwick, E. et al. (1999) <i>Trends Pharmacol Sci</i> 20, 408-12. Cooper, J.A. and Howell, B. (1993) <i>Cell</i> 73, 1051-4. Hubbard, S.R. et al. (1994) <i>Nature</i> 372, 746-54. Biscardi, J.S. et al. (1999) <i>J Biol Chem</i> 274, 8335-43. Emlet, D.R. et al. (1997) <i>J Biol Chem</i> 272, 4079-86. Levkowitz, G. et al. (1999) <i>Mol Cell</i> 4, 1029-40. Ettenberg, S.A. et al. (1999) <i>Oncogene</i> 18, 1855-66. Rojas, M. et al. (1996) <i>J Biol Chem</i> 271, 27456-61. Feinmesser, R.L. et al. (1999) <i>J Biol Chem</i> 274, 16168-73. 					
Species Reactivity	Species reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern 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	WB: Western Blotting	WB: Western Blotting				
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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Limited Uses

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