EGF Receptor (15F8) Rabbit mAb





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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956	
Product Usage Information		Application Western 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.					
			Rabbit mAb detects endogenous levels of EGF receptor proteins. The antibody ther proteins of the ErbB family.				
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human EGF receptor.					
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 1. Hackel, P.O. et al. (1999) Curr Opin Cell Biol 11, 184-9. 2. Zwick, E. et al. (1999) Trends Pharmacol Sci 20, 408-12. 3. Cooper, J.A. and Howell, B. (1993) Cell 73, 1051-4. 4. Hubbard, S.R. et al. (1994) Nature 372, 746-54. 5. Biscardi, J.S. et al. (1997) J Biol Chem 274, 8335-43. 6. Emlet, D.R. et al. (1997) J Biol Chem 272, 4079-86. 7. Levkowitz, G. et al. (1999) Mol Cell 4, 1029-40. 8. Ettenberg, S.A. et al. (1999) Oncogene 18, 1855-66. 9. Rojas, M. et al. (1996) J Biol Chem 271, 27456-61. 10. Feinmesser, R.L. et al. (1999) J Biol Chem 274, 16168-73.							
Species Reacti	ivity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot I	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 K	(ey	W: Western Blotting					
Cross-Reactivi	ty Key	H: Human					
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