Revision 1	
Phospho-EGF Receptor (Ser1046/1047) Antibody	Cell Signaling
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Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 175	Source/Isotype: Rabbit	<b>UniProt ID:</b> #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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Phospho-EGF Receptor (Ser1046/1047) Antibody detects endogenous levels of EGF receptors only when phosphorylated at Ser1046/1047. This antibody may cross-react with other activated EGF receptor family members (e.g. ErbB2).						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser1046/1047 of human EGF receptor. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		HER/ErbB protein fam activation of downstre of EGF receptor (EGFR maintaining the activa is involved in phospho- resulting in activation creates a major docki degradation following phospho-Tyr1068 (9). site for the Shc scaffo Phosphorylation of EC EGFR carboxy-termina	illy. Ligand binding cam signaling, inter ) at Tyr845 in the k e state enzyme, and orylation of EGFR at of PLCγ-mediated ng site for the adap g EGFR activation (7 A pair of phosphor Id protein, with bot 5FR at specific serin al residues Ser1046	tor is a transmembrane results in receptor dime rnalization, and lysosom inase domain is implicat d providing a binding sui t Tyr845 (5). The SH2 dor downstream signaling (6 otor protein c-Cbl, leadin ,8). The GRB2 adaptor p ylated EGFR residues (Ty th sites involved in MAP he and threonine residue and Ser1047 are phospi gulated EGFR tyrosine au	rization, autophosp al degradation (1,2) ed in stabilizing the face for substrate p nain of PLCy binds a 5). Phosphorylation g to receptor ubiqu rotein binds activate r1148 and Tyr1173) kinase signaling act is attenuates EGFR   horylated by CaM ki	horylation, . Phosphorylation activation loop, oroteins (3,4). c-Src at phospho-Tyr992, of EGFR at Tyr1045 itination and ed EGFR at provide a docking ivation (2). cinase activity. nase II; mutation		
Background Re	eferences	1. Hackel, P.O. et al. (1 2. Zwick, E. et al. (199 3. Cooper, J.A. and Ho 4. Hubbard, S.R. et al. 5. Biscardi, J.S. et al. (1 6. Emlet, D.R. et al. (1 7. Levkowitz, G. et al. ( 8. Ettenberg, S.A. et al 9. Rojas, M. et al. (199 10. Feinmesser, R.L. et	<ul> <li>D) Trends Pharmaco well, B. (1993) Cell 7 (1994) Nature 372, 999) J Biol Chem 27 997) J Biol Chem 27 (1999) Mol Cell 4, 10 (1999) Oncogene 6) J Biol Chem 271,</li> </ul>	ol Sci 20, 408-12. 73, 1051-4. 746-54. 74, 8335-43. 2, 4079-86. 029-40. 18, 1855-66. 27456-61.				
Species Reactiv	vity	Species reactivity is de	etermined by testin	ng in at least one approv	ed application (e.g.,	western blot).		
Western Blot B	uffer		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-Reactivit	су Кеу	H: Human M: Mouse R: Rat						
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