Store at -20C **Cell Signaling** Phospho-EGF Receptor (Ser1046/1047) Antibody TECHNOLOGY® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) 30 Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

	tivity: Sensitivity: M R Endogenous	<b>MW (kDa):</b> 175	Source: Rabbit	<b>UniProt ID:</b> #P00533	Entrez-Gene Id: 1956	
Product Usage Information	Application Western Blotting			Dilution 1:1000		
Storage	Supplied in 10 mM sod 20°C. Do not aliquot th		5), 150 mM NaCl, 10	150 mM NaCl, 100 $\mu\text{g/ml}$ BSA and 50% glycerol. Store at –		
Specificity / Sensitivity	Phospho-EGF Receptor (Ser1046/1047) Antibody detects endogenous levels of EGF receptors only whe phosphorylated at Ser1046/1047. This antibody may cross-react with other activated EGF receptor family members (e.g. ErbB2).					
Source / Purification	to residues surrounding	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 fami downstream signaling, (EGFR) at Tyr845 in th active state enzyme, at phosphorylation of EGI activation of PLCγ-med major docking site for t following EGFR activat A pair of phosphorylate protein, with both sites specific serine and three	ly. Ligand binding re- internalization, and e kinase domain is in nd providing a bindii FR at Tyr845 (5). The diated downstream s he adaptor protein of ion (7,8). The GRB2 ed EGFR residues ( involved in MAP kin conine residues atte are phosphorylated	esults in receptor dir lysosomal degradal implicated in stabiliz ng surface for subst es SH2 domain of Pl signaling (6). Phosp c-Cbl, leading to rec 2 adaptor protein bir Tyr1148 and Tyr117 nase signaling activa nuates EGFR kinas by CaM kinase II; n	ne tyrosine kinase that k nerization, autophospho tion (1,2). Phosphorylation ing the activation loop, r rate proteins (3,4). c-Src LCy binds at phospho-Ty horylation of EGFR at Ty eptor ubiquitination and nds activated EGFR at p 3) provide a docking site ation (2). Phosphorylation e activity. EGFR carboxy nutation of either of these	rylation, activation of on of EGF receptor maintaining the c is involved in yr992, resulting in yr1045 creates a degradation hospho-Tyr1068 (9). c for the Shc scaffold n of EGFR at y-terminal residues	
Background References	<ol> <li>Hackel, P.O. et al. (1</li> <li>Zwick, E. et al. (1999)</li> <li>Cooper, J.A. and Ho</li> <li>Hubbard, S.R. et al.</li> <li>Biscardi, J.S. et al. (1997)</li> <li>Emlet, D.R. et al. (1997)</li> <li>Levkowitz, G. et al. (1997)</li> <li>Rojas, M. et al. (1999)</li> <li>Feinmesser, R.L. et al.</li> </ol>	<ul> <li>D) Trends Pharmacc</li> <li>well, B. (1993) Cell</li> <li>(1994) Nature 372,</li> <li>(1999) J Biol Chem 2</li> <li>(1997) J Biol Chem 27</li> <li>(1999) Mol Cell 4, 10</li> <li>(1999) Oncogene</li> <li>(1999) J Biol Chem 271,</li> </ul>	ol Sci 20, 408-12. 73, 1051-4. 746-54. 274, 8335-43. 2, 4079-86. 029-40. 18, 1855-66. 27456-61.			
Species Reactivity	Species reactivity is det	ermined by testing i	n at least one appro	ved application (e.g., we	estern blot).	
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			ed primary antibody in 59	% w/v BSA, 1X TBS,	
Applications Key	WB: Western Blotting					
Cross-Reactivity Key	H: human M: mouse R: X: Xenopus Z: zebrafish GP: Guinea Pig Rab: ra	n <b>B:</b> bovine <b>Dg:</b> dog	Pg: pig Sc: S. cere		U U	

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