1/1/24, 12:44 PM Revision 1

	Phospho-EGF Receptor (Tyr845)						Cell Signaling	
	a Antibody					Orders:	877-616-CELL (2355) orders@cellsignal.com	
	H					Support:	877-678-TECH (8324)	
	#2231					Web:	info@cellsignal.com cellsignal.com	
					3 Trask	Lane Danvers Mas	ssachusetts 01923 USA	
Fo	r Research Use Only		-					
	Applications: WB	Reactivity H M R	: Sensitivity: Endogenous	MW (kDa): 175	Source: Rabbit	UniProt ID: #P00533	Entrez-Gene Id: 1956	
	Product Usage Information		Application			Dilution		
			Western Blotting			1:1000		
	Storage		Supplied in 10 mM sodi 20°C. Do not aliquot the		5), 150 mM NaCl, 100) µg/ml BSA and 50%	glycerol. Store at –	
	Specificity / Sensitivity		Phospho-EGF Receptor (Tyr845) Antibody detects endogenous levels of EGF receptor only when phosphorylated at tyrosine 845. The antibody may cross-react with other activated EGF receptor family members (e.g., ErbB2).					
	Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr845 of human EGF receptor. Antibodies are purified by protein A and peptide affinity chromatography.					
	Background Background References		 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). 1. Hackel, P.O. et al. (1999) <i>Curr Opin Cell Biol</i> 11, 184-9. 2. Zwick, E. et al. (1999) <i>Trends Pharmacol Sci</i> 20, 408-12. 3. Cooper, J.A. and Howell, B. (1993) <i>Cell</i> 73, 1051-4. 					
			 Hubbard, S.R. et al. (1994) Nature 372, 746-54. Biscardi, J.S. et al. (1999) J Biol Chem 274, 8335-43. Emlet, D.R. et al. (1997) J Biol Chem 272, 4079-86. Levkowitz, G. et al. (1999) Mol Cell 4, 1029-40. Ettenberg, S.A. et al. (1999) Oncogene 18, 1855-66. Rojas, M. et al. (1996) J Biol Chem 271, 27456-61. Feinmesser, R.L. et al. (1999) J Biol Chem 274, 16168-73. 					
	Species Reactivity	y s	Species reactivity is dete	ermined by testing i	in at least one approv	red application (e.g., v	western blot).	
,	Western Blot Buff		MPORTANT: For wester 0.1% Tween® 20 at 4°C			l primary antibody in	5% w/v BSA, 1X TBS,	
	Applications Key		WB: Western Blotting					
	Cross-Reactivity I	Key H	I: human M: mouse R: X: Xenopus Z: zebrafish SP: Guinea Pig Rab: rai	B: bovine Dg: dog	g Pg: pig Sc: S. cerev		÷	

Phospho-EGF Receptor (Tyr845) Antibody (#2231) Datasheet Without Images Cell Signaling Technology

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