1/1/24, 2:47 PM Revision 1

REVISIONI							
Phospho-EGF Receptor (Tyr1148) Antibody							
Stol					Orders:	877-616-CELL (2355) orders@cellsignal.com	
4					Support:	877-678-TECH (8324)	
#4404					Web:	info@cellsignal.com cellsignal.com	
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For Research Use Only. N		-		Courses	UniDrot ID.	Entros Cono Idi	
Applications: WB, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 175	Source: Rabbit	UniProt ID: #P00533	Entrez-Gene Id: 1956	
Product Usage Information	Ap	plication				Dilution	
	We	Western Blotting				1:1000	
	Im	Immunohistochemistry (Paraffin) 1:50				1:50	
Storage	•	oplied in 10 mM sodiu C. Do not aliquot the		5), 150 mM NaCl, 100	μg/ml BSA and 50%	6 glycerol. Store at –	
Specificity / Sensitiv	pho	Phospho-EGF Receptor (Tyr1148) Antibody detects endogenous levels of EGF receptor only when phosphorylated at tyrosine 1148. This antibody does not cross-react with other tyrosine-phosphorylated ErbB family members.					
Species predicted to react based on 1009 sequence homology	%						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1148 of human EGF receptor. Antibodies are purified by protein A and peptide affinity chromatography.					
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 Refere	2. Z 3. C 4. F 5. E 6. E 7. L 8. E 9. F	 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 Western Blot Buffer	·	cies reactivity is deter	rmined by testing i	n at least one approve	ed application (e.g.,	western blot).	

1/1/24, 2:47 PM	Phospho-EGF Receptor (Tyr1148) Antibody (#4404) Datasheet Without Images Cell Signaling Technology 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 Ke	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)			
Cross-Reactivity	 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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