Revision 1

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Phospho-HER2/ErbB2 (Tyr1248)/EGFR (Tyr1173) Antibody				Orders:	Signaling H N O L O G Y [®] 877-616-CELL (2355) orders@cellsignal.com
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#2244				Web:	info@cellsignal.com cellsignal.com
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For Research Use Only. Not for U					
Applications: Reactivi WB H M	ity: Sensitivity: Endogenous	MW (kDa): 185	Source: Rabbit	UniProt ID: #P00533, #P04626	Entrez-Gene Id: 1956, 2064
Product Usage	Application			Dilution	
Information	Western Blotting			1:1000	
Storage	Supplied in 10 mM sodiu 20°C. Do not aliquot the), 150 mM NaCl, 1	.00 μg/ml BSA and 50% g	lycerol. Store at –
Specificity / Sensitivity	Phospho-HER2/ErbB2 (⁻ tyrosine 1248 and EGFR			detects ErbB2 only when ne 1173.	phosphorylated at
Source / Purification	-		-	ith a synthetic phosphope are purified by protein A a	
Background	The ErbB2 (HER2) proto-oncogene encodes a 185 kDa transmembrane, receptor-like glycoprotein with intrinsic tyrosine kinase activity (1). While ErbB2 lacks an identified ligand, ErbB2 kinase activity can be activated in the absence of a ligand when overexpressed and through heteromeric associations with other ErbB family members (2). Amplification of the <i>ErbB2</i> gene and overexpression of its product are detected in almost 40% of human breast cancers (3). Binding of the c-Cbl ubiquitin ligase to ErbB2 at Tyr1112 leads to ErbB2 poly-ubiquitination and enhances degradation of this kinase (4). ErbB2 is a key therapeutic target in the treatment of breast cancer and other carcinomas and targeting the regulation of ErbB2 degradation by the c-Cbl-regulated proteolytic pathway is one potential therapeutic strategy. Phosphorylation of the kinase domain residue Tyr877 of ErbB2 (homologous to Tyr416 of pp60c-Src) may be involved in regulating ErbB2 biological activity. The major autophosphorylation sites in ErbB2 are Tyr1248 and Tyr1221/1222; phosphorylation of these sites couples ErbB2 to the Ras-Raf-MAP kinase signal transduction pathway (1,5).				
Background References	1. Muthuswamy, S.K. et a 2. Qian, X. et al. (1994) F 3. Dittadi, R. and Gion, M 4. Klapper, L.N. et al. (20 5. Kwon, Y.K. et al. (1997	Proc Natl Acad Sci A. (2000) J Natl Cai 000) Cancer Res 60	USA 91, 1500-4. ncer Inst 92, 1443), 3384-8.	-4.	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot 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 Key	WB: Western Blotting				
Cross-Reactivity Key	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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