1/1/24, 7:45 AM Revision 1

#2541 Store at -20 Antibody	2/ErbB2 (Tyr877))			BISignaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com
	Haa in Diannaatia Duaaa	4	3 Trask	Lane Danvers Ma	ssachusetts 01923 USA
For Research Use Only. Not for Applications: Reacti		MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB H M		185	Rabbit	#P04626	2064
Product Usage Information	Application Western Blotting			Dilution 1:1000	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity	Phospho-HER2/ErbB2 (Tyr877) Antibody detects endogenous levels of ErbB2 only when phosphorylated at tyrosine 877. The antibody may cross-react with other ErbB family members (e.g., EGF receptor) when phosphorylated at their tyrosine residues.				
Species predicted to react based on 100% sequence homology:	Rat				
Source / Purification	Polyclonal antibodies are to residues surrounding T chromatography.				
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	 Muthuswamy, S.K. et al. (1999) <i>Mol Cell Biol</i> 19, 6845-57. Qian, X. et al. (1994) <i>Proc Natl Acad Sci USA</i> 91, 1500-4. Dittadi, R. and Gion, M. (2000) <i>J Natl Cancer Inst</i> 92, 1443-4. Klapper, L.N. et al. (2000) <i>Cancer Res</i> 60, 3384-8. Kwon, Y.K. et al. (1997) <i>J Neurosci</i> 17, 8293-9. 				
Species Reactivity	Species reactivity is detern	nined by testing	in at least one appro	ved 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: ra X: Xenopus Z: zebrafish E GP: Guinea Pig Rab: rabb	: bovine Dg: dog	Pg: pig Sc: S. cere		

Phospho-HER2/ErbB2 (Tyr877) Antibody (#2241) Datasheet Without Images Cell Signaling Technology

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