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# Phospho-HER2/ErbB2 (Tyr1248) **Antibody**



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 185	Source: Rabbit	UniProt ID: #P04626	Entrez-Gene Id: 2064	
Product Usage Information	Ар	plication			Dilution		
	We	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitiv		Phospho-HER2/ErbB2 (Tyr1248) Antibody detects endogenous levels of ErbB2 only when phosphorylated at tyrosine 1248. This antibody does not cross react with other HER/ErbB family members.					
Species predicted to react based on 100% sequence homology	6						
Source / Purification	to re		g Tyr1248 of human	•	th a synthetic phosphop bodies are purified by p		
Background	intrin activ Erbl in al to E in th by tl kina regu Tyr1	nsic tyrosine kinase vated in the absence a family members ( lmost 40% of huma rbB2 poly-ubiquiting the treatment of breathe c-Cbl-regulated ( lise domain residue ulating ErbB2 biolog	e activity (1). While I se of a ligand when a 2). Amplification of a n breast cancers (3 ation and enhances ast cancer and other proteolytic pathway Tyr877 of ErbB2 (h gical activity. The ma prylation of these sit	ErbB2 lacks an iden overexpressed and the ErbB2 gene and beging of the c-C degradation of this carcinomas and tais one potential the omologous to Tyr41 ajor autophosphoryl	nembrane, receptor-like tified ligand, ErbB2 kina through heteromeric as: I overexpression of its post ubiquitin ligase to Ert kinase (4). ErbB2 is a kregeting the regulation of rapeutic strategy. Phosp 6 of pp60c-Src) may be ation sites in ErbB2 are to the Ras-Raf-MAP kina	se activity can be sociations with other roduct are detected bB2 at Tyr1112 leads ey therapeutic target ErbB2 degradation phorylation of the involved in Tyr1248 and	
Dealers d Defere			t al. (1000) Mail Cal	Dial 10 CO1E 57			

### **Background References**

- 1. Muthuswamy, S.K. et al. (1999) Mol Cell Biol 19, 6845-57.
- 2. Qian, X. et al. (1994) Proc Natl Acad Sci USA 91, 1500-4.
- 3. Dittadi, R. and Gion, M. (2000) J Natl Cancer Inst 92, 1443-4.
- 4. Klapper, L.N. et al. (2000) Cancer Res 60, 3384-8.
- 5. Kwon, Y.K. et al. (1997) J Neurosci 17, 8293-9.

# **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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