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HER2/ErbB2 (29D8) Rabbit mAb (HRP Conjugate)



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Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 185	Source/Isotype: Rabbit IgG	UniProt ID: #P04626	Entrez-Gene Id: 2064	
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20 °C. Do not aliquot the antibody.					
Specificity / Sensitiv		R2/ErbB2 (29D8) Ra body does not cross		Conjugate) detects endo d kinases.	ogenous levels of total	ErbB2 protein. This	
Species predicted to react based on 100% sequence homology	6						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding tyrosine 1248 of human ErbB2 protein.					
Product Description	perd	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated HER2/ErbB2 (29D8) Rabbit mAb #2165.					
ИW (kDa)		185					

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 ErbB2 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 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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

1/1/24. 9:42 AM

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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 Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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