

## HER3/ErbB3 (D22C5) XP<sup>®</sup> Rabbit mAb (Biotinylated)



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 185	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P21860	Entrez-Gene Id: 2065
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 136 mM NaCl, 2.6 mM KCI, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at $-20^{\circ}$ C. Do not aliquot the antibodies.				
Specificity/Sensitivity		HER3/ErbB3 (D22C5) XP <sup>®</sup> Rabbit mAb (Biotinylated) recognizes endogenous levels of total HER3/ErbB3 protein. This antibody does not cross-react with other HER family proteins.				
Species predicted to react based on 100% sequence homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to the carboxy terminus of human ErbB3 protein.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated HER3/ErbB3 (D22C5) XP <sup>®</sup> Rabbit mAb #12708.				
Background		HER3/ErbB3 is a member of the ErbB receptor protein tyrosine kinase family, but it lacks tyrosine kinase activity. Tyrosine phosphorylation of ErbB3 depends on its association with other ErbB tyrosine kinases. Upon ligand binding, heterodimers form between ErbB3 and other ErbB proteins, and ErbB3 is phosphorylated on tyrosine residues by the activated ErbB kinase (1,2). There are at least 9 potential tyrosine phosphorylation sites in the carboxy-terminal tail of ErbB3. These sites serve as consensus binding sites for signal transducing proteins, including Src family members, Grb2, and the p85 subunit of PI3 kinase, which mediate ErbB downstream signaling (3). Both Tyr1222 and Tyr1289 of ErbB3 reside within a YXXM motif and participate in signaling to PI3K (4).				
		ErbB3/PI3K pathway i have demonstrated th other ErbB members	s correlated with m nat in tumor develo (e.g., ErbB2 require ibiting interaction l	ghly expressed in many alignant phenotypes of pment, ErbB3 may funct s ErbB3 to drive breast t between ErbB3 and ErbB	adenocarcinomas ( ion as an oncogeni umor cell proliferat	6). Research studies c unit together with ion) (7). Thus,
Background References		<ol> <li>Yarden, Y. and Sliwkowski, M.X. (2001) Nat Rev Mol Cell Biol 2, 127-37.</li> <li>Guy, P.M. et al. (1994) Proc Natl Acad Sci U S A 91, 8132-6.</li> <li>Songyang, Z. et al. (1993) Cell 72, 767-78.</li> <li>Kim, H.H. et al. (1994) J Biol Chem 269, 24747-55.</li> <li>Sithanandam, G. et al. (2003) Carcinogenesis 24, 1581-92.</li> <li>Kobayashi, M. et al. (2003) Oncogene 22, 1294-301.</li> <li>Holbro, T. et al. (2003) Proc Natl Acad Sci U S A 100, 8933-8.</li> </ol>				
Species Reactiv	rity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

**Species Reactivity** 

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**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  $4^{\circ}$ C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse

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