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





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

Applications: W, W-S, IP, IHC- Bond, IHC-P, IF-IC, FC-FP	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 185	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P21860	Entrez-Gene Id: 2065
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation IHC Leica Bond Immunohistochemistr Immunofluorescence Flow Cytometry (Fixed	(Immunocytochem	istry)	1:1 1:5 1:5 1:5 1:1 1:1	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #60638.				
Specificity/Sen	sitivity	HER3/ErbB3 (D22C5) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total HER3/ErbB3 protein. This antibody does not cross-react with other HER family proteins.				
Species predict based on 100% homology		Rat				
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to the carboxy terminus of human ErbB3 protein.				
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 is have demonstrated th other ErbB members (	s correlated with m at in tumor develo e.g., ErbB2 require biting interaction b	ghly expressed in many alignant phenotypes of a pment, ErbB3 may funct s ErbB3 to drive breast t petween ErbB3 and ErbB	adenocarcinomas ( ion as an oncogeni umor cell proliferat	5). Research studies c unit together with ion) (7). Thus,
Background Re	ferences	<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 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	W: Western Blotting W-S: Simple Western <sup>™</sup> IP: Immunoprecipitation IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	H: Human M: Mouse		
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