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## Phospho-HER3/ErbB3 (Tyr1289) (D1B5) Rabbit mAb



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Applications: W, IP, IHC-P	Reactivity: 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		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemist	ry (Paraffin)		<b>Dilution</b> 1:1000 1:100 1:800 - 1:32	00
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 #46661.				
Specificity/Sen	sitivity	Phospho-HER3/ErbB3 (Tyr1289) (D1B5) Rabbit mAb detects endogenous levels of HER3/ErbB3 proteins only when phosphorylated at Tyr1289. This antibody may cross-react with overexpressed receptor tyrosine kinases.				
Species predict based on 100% homology		Rat				
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1289 of human HER3/ErbB3 protein.				
Background		<ul> <li>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 P13 kinase, which mediate ErbB downstream signaling (3). Both Tyr1222 and Tyr1289 of ErbB3 reside within a YXXM motif and participate in signaling to P13K (4).</li> <li>Investigators have found that ErbB3 is highly expressed in many cancer cells (5) and activation of the ErbB3/P13K pathway is correlated with malignant phenotypes of adenocarcinomas (6). Research studies have demonstrated that in tumor development, ErbB3 may function as an oncogenic unit together with</li> </ul>				
Background References		other ErbB members ( investigators view inhi for anti-tumor therapy	e.g., ErbB2 require ibiting interaction k /. owski, M.X. (2001) 4) <i>Proc Natl Acad So</i> 1993) <i>Cell</i> 72, 767-7	s ErbB3 to drive breast to between ErbB3 and ErbB Nat Rev Mol Cell Biol 2, 1 ci U S A 91, 8132-6. 8.	umor cell proliferat tyrosine kinases as	ion) (7). Thus,
		5. Sithanandam, G. et 6. Kobayashi, M. et al. 7. Holbro, T. et al. (200	al. (2003) <i>Carcinog</i> (2003) <i>Oncogene</i> 2	<i>enesis</i> 24, 1581-92. 2, 1294-301.		
Species Reactiv	/ity	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted haking, overnight.	primary antibody ir	ז 5% w/v BSA, 1X
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)				
Cross-Reactivit	у Кеу	H: Human M: Mouse				

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