

19774

Phospho-HER3/ErbB3 (Tyr1289) (21D3) Rabbit mAb



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Applications: W, W-S, IP, IHC-P	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 185	Source/Isotype: Rabbit	UniProt ID: #P21860	Entrez-Gene Id: 2065
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation Immunohistochemistry (Paraffin)			Dilution 1:1000 1:50 - 1:250 1:100 1:1000	
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 #73367.				
Specificity/Sensitivity		Phospho-HER3/ErbB3 (Tyr1289) (21D3) Rabbit mAb detects endogenous HER3/ErbB3 proteins only when phosphorylated at tyrosine 1289. This antibody cross-reacts with overexpressed EGFR. This antibody may cross-react with overexpressed receptor tyrosine kinases in IHC.				
Species predict based on 100% homology		Rat, Dog				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1289 of human HER3/ErbB3.				
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 the other ErbB members (correlated with m at in tumor develo e.g., ErbB2 require biting interaction b	ghly expressed in many alignant phenotypes of oment, ErbB3 may funct s ErbB3 to drive breast t etween ErbB3 and ErbB	adenocarcinomas (cion as an oncogeni cumor cell proliferat	6). Research studies c unit together with ion) (7). Thus,
Background References		 Yarden, Y. and Sliwkowski, M.X. (2001) Nat Rev Mol Cell Biol 2, 127-37. Guy, P.M. et al. (1994) Proc Natl Acad Sci U S A 91, 8132-6. Songyang, Z. et al. (1993) Cell 72, 767-78. Kim, H.H. et al. (1994) J Biol Chem 269, 24747-55. Sithanandam, G. et al. (2003) Carcinogenesis 24, 1581-92. Kobayashi, M. et al. (2003) Oncogene 22, 1294-301. Holbro, T. et al. (2003) Proc Natl Acad Sci U S A 100, 8933-8. 				

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

W: Western Blotting **W-S:** Simple Western[™] **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key H: Human M: Mouse

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