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Phospho-HER3/ErbB3 (Tyr1197) (C56E4) Rabbit mAb



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Applications:	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 185	Source/Isotype: Rabbit IgG	UniProt ID: #P21860	Entrez-Gene Id 2065
Product Usage Information		Application Western Blotting			Dilution 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.				
Specificity/Sensitivity		Phospho-HER3/ErbB3 (Tyr1197) (C56E4) Rabbit mAb detects endogenous levels of HER3/ErbB3 protein only when phosphorylated at Tyr1197. The antibody does not cross-react with other phosphorylated receptor tyrosine kinases.				
Species predicted to react based on 100% sequence homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1197 of human HER3/ErbB3.				
Background		kinase activity. Tyrosir kinases. Upon ligand phosphorylated on ty tyrosine phosphorylat binding sites for signa	ne phosphorylation binding, heterodim rosine residues by tion sites in the car al transducing proto nediate ErbB down	eptor protein tyrosine ki of ErbB3 depends on its ers form between ErbB3 the activated ErbB kinaso boxy-terminal tail of Erbl eins, including Src family stream signaling (3). Botl gnaling to PI3K (4).	s association with o B and other ErbB pr e (1,2). There are at B3. These sites serv members, Grb2, a	ther ErbB tyrosine oteins, and ErbB3 is least 9 potential re as consensus nd the p85 subunit
		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	ighly expressed in many lalignant phenotypes of pment, ErbB3 may funct is ErbB3 to drive breast t petween ErbB3 and ErbB	adenocarcinomas (ion as an oncogeni umor cell proliferat	6). Research studies ic unit together with tion) (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 Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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

Cross-Reactivity Key H: Human M: Mouse

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