5069

HER3/ErbB3 (D22C5) XP[®] Rabbit mAb (HRP Conjugate)



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	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 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliguot the antibodies.			ng/ml BSA, and			
Specificity/Sensitivity		HER3/ErbB3 (D22C5) XP [®] Rabbit mAb (HRP Conjugate) 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	ted to react sequence	Rat					
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to the carboxy terminus of human ErbB3 protein.				corresponding to	
Description		This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated HER3/ErbB3 (D22C5) XP [®] 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 is have demonstrated th other ErbB members (correlated with m at in tumor develo e.g., ErbB2 require biting interaction l	ghly expressed in many alignant phenotypes of pment, ErbB3 may funct s ErbB3 to drive breast t between ErbB3 and ErbB	adenocarcinomas (6 tion as an oncogenic tumor cell proliferati	5). Research studies c unit together with on) (7). Thus,	
Background Re	eferences	1. Yarden, Y. and Sliwk 2. Guy, P.M. et al. (1994 3. Songyang, Z. et al. (4. Kim, H.H. et al. (1994 5. Sithanandam, G. et a 6. Kobayashi, M. et al. 7. Holbro, T. et al. (200	4) <i>Proc Natl Acad S</i> 1993) <i>Cell</i> 72, 767-7 4) <i>J Biol Chem</i> 269, al. (2003) <i>Carcinog</i> (2003) <i>Oncogene</i> 2	78. 24747-55. <i>enesis</i> 24, 1581-92. 22, 1294-301.	127-37.		
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Suffer		,	membrane with diluted with gentle shaking, ove	1 2 2	1 5% w/v nonfat	
Applications K	ey	W: Western Blotting					
Cross-Reactivit	су Кеу	H: Human M: Mouse					

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