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



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

Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P21860	Entrez-Gene Id: 2065
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage Supplied in PBS (pH 7.2), less than 0.1% sodi antibody. Protect from light. Do not freeze.				zide and 2 mg/ml BS	A. Store at 4°C. Do not aliquot the
Specificity/Sensitivity		HER3/ErbB3 (D22C5) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total HER3/ErbB3 protein. This antibody does not cross-react with other HER family proteins.			
Species predicte based on 100% s homology	d to react equence	Rat			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to the carboxy terminus of human ErbB3 protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This 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).			
		Investigators have found that ErbB3 is highly expressed in many cancer cells (5) and activation of the ErbB3/PI3K 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 other ErbB members (e.g., ErbB2 requires ErbB3 to drive breast tumor cell proliferation) (7). Thus, investigators view inhibiting interaction between ErbB3 and ErbB tyrosine kinases as a novel strategy for anti-tumor therapy.			
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).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse

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