| Phospho-HER3/ErbB3 (Tyr1289) (21D3) Rabbit mAb | | | |
|---------------------------------------------------|-----------------------------------------|----------------------------------------------|--|
| Store | Orders: | 877-616-CELL (2355) orders@cellsignal.com | |
| 7 | Support: | 877-678-TECH (8324) | |
| #4791 | Web: | info@cellsignal.com cellsignal.com | |
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

| Applications: Reactive WB, IP, IHC-P H M | | MW (kDa): 185 | Source/Isotype: Rabbit | UniProt ID: #P21860 | Entrez-Gene Id: 2065 | |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------|--|
| Product Usage | Application | | | C | Dilution | |
| Information | Western Blotting | | | 1 | 1:1000 | |
| | Immunoprecipitation | | | 1 | 1:100 | |
| | Immunohistochemistry | (Paraffin) | | 1 | :1000 | |
| Storage | Supplied in 10 mM sodi 0.02% sodium azide. Si | | | | erol and less than | |
| | For a carrier free (BSA | and azide free) v | ersion of this product se | e product #73367. | | |
| Specificity / Sensitivity | Phospho-HER3/ErbB3 phosphorylated at tyros cross-react with overex | ine 1289. This ar | ntibody cross-reacts with | n overexpressed EGFI | | |
| Species predicted to react based on 100% sequence homology | Rat, Dog | | | | | |
| Source / Purification | Monoclonal antibody is residues surrounding Ty | | - | synthetic phosphopep | tide corresponding to | |
| 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 foun ErbB3/PI3K pathway is have demonstrated that other ErbB members (e investigators view inhibi anti-tumor therapy. | correlated with n t in tumor develo .g., ErbB2 require | nalignant phenotypes of oment, ErbB3 may func es ErbB3 to drive breas | adenocarcinomas (6) tion as an oncogenic u t tumor cell proliferatio | . Research studies unit together with on) (7). Thus, | |
| Background References | 1. Yarden, Y. and Sliwko 2. Guy, P.M. et al. (1994 3. Songyang, Z. et al. (1 4. Kim, H.H. et al. (1994 5. Sithanandam, G. et a 6. Kobayashi, M. et al. (7. Holbro, T. et al. (2003 | Proc Natl Acad Proc Natl Acad Cell 72, 76 J Biol Chem 26 (2003) Carcino (2003) Oncogene | Sci U S A 91, 8132-6. 7-78. 69, 24747-55. 9 <i>genesis</i> 24, 1581-92. 22, 1294-301. | | | |
| Species Reactivity | Species reactivity is dete | ermined by testing | g in at least one approv | ed application (e.g., w | estern blot). | |
| Western Blot Buffer | | | | | | |

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| 4/13/24, 10:36 AM | ospho-HER3/ErbB3 (Tyr1289) (21D3) Rabbit mAb (#4791) Datasheet Without Images Cell Signaling Te 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 | WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) | |
| Cross-Reactivity | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected | |
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