4343

Phospho-EGF Receptor (Thr678) Antibody



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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit	UniProt ID: #P00533	Entrez-Gene Id: 1956
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
Storage		Supplied in 10 mM sodi 20°C. Do not aliquot the), 150 mM NaCl, 100 μg/	ml BSA and 50% gly	/cerol. Store at –
Specificity/Sens	sitivity	Phospho-EGF Receptor (Thr678) Antibody recognizes endogenous levels of EGFR protein only when phosphorylated at Thr678.				
Species predicte based on 100% homology		Mouse, Rat, Pig				
Source / Purifica	ation	,	ues surrounding T	munizing animals with a hr678 of human EGFR p raphy.		
Background		HER/ErbB protein family activation of downstrea of EGF receptor (EGFR) maintaining the active s is involved in phosphor resulting in activation o creates a major docking degradation following E phospho-Tyr1068 (9). A site for the Shc scaffold Phosphorylation of EGF EGFR carboxy-terminal of either of these sering EGFR can be phosphory keeping internalized EGF	y. Ligand binding m signaling, inter at Tyr845 in the ki state enzyme, and ylation of EGFR at f PLCy-mediated of g site for the adap EGFR activation (7, pair of phosphory protein, with both R at specific serin- residues Ser1046 es results in upreg vlated at Thr678 by GFR in recycling en	or is a transmembrane f results in receptor dimen nalization, and lysosoma nase domain is implicate providing a binding sur Tyr845 (5). The SH2 dom lownstream signaling (6 tor protein c-Cbl, leading 8). The GRB2 adaptor pr dated EGFR residues (Tyr sites involved in MAP k e and threonine residues and Ser1047 are phosph ulated EGFR tyrosine au / PKC (11,12). Phosphory dosomes and away fron a shown to be required f	rization, autophosp al degradation (1,2). ed in stabilizing the face for substrate p nain of PLCγ binds a). Phosphorylation o g to receptor ubiqui otein binds activate r1148 and Tyr1173) s attenuates EGFR k oorylated by CaM kii tophosphorylation vlation at this site is n degradation path	horylation, . Phosphorylation activation loop, proteins (3,4). c-Src activation and ed EGFR at Tyr1045 itination and ed EGFR at provide a docking vation (2). cinase activity. nase II; mutation (10). important for ways (13).
Background Re	ferences	1. Hackel, P.O. et al. (199 2. Zwick, E. et al. (1999) 3. Cooper, J.A. and How 4. Hubbard, S.R. et al. (1 5. Biscardi, J.S. et al. (19 6. Emlet, D.R. et al. (199 7. Levkowitz, G. et al. (1 8. Ettenberg, S.A. et al. (1 9. Rojas, M. et al. (1996) 10. Feinmesser, R.L. et a 11. Hunter, T. et al. (198 12. Davis, R.J. and Czech 13. Bao, J. et al. (2000) <i>J</i> 14. Dittmann, K. et al. (2000)	Trends Pharmaco ell, B. (1993) <i>Cell</i> 7 (1994) <i>Nature</i> 372, 99) <i>J Biol Chem</i> 277 7) <i>J Biol Chem</i> 272 999) <i>Mol Cell</i> 4, 10 (1999) <i>Oncogene</i> 1) <i>Biol Chem</i> 271, 2 al. (1999) <i>J Biol Che</i> 4) <i>Nature</i> 311, 480 n, M.P. (1985) <i>Proc</i> <i>Biol Chem</i> 275, 26	<i>l Sci</i> 20, 408-12. 3, 1051-4. 746-54. 4, 8335-43. , 4079-86. 29-40. 18, 1855-66. 27456-61. 27456-61. 274, 16168-73.)-3. <i>Natl Acad Sci U S A</i> 82, 1 178-86.	974-8.	

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
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Cross-Reactivity Key	H: Human
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