EGF Receptor (T43) Antibody



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

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit	UniProt ID: #P00533	Entrez-Gene Id 1956
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		EGF Receptor (T43) Antibody detects endogenous levels of total EGF receptor protein. The antibody does not cross-react with other proteins of the ErbB family.				
Species predicted to react based on 100% sequence homology		Pig				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr43 of human EGF receptor extracellular domain. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		HER/ErbB protein fam activation of downstre of EGF receptor (EGFR maintaining the active is involved in phosphoresulting in activation creates a major dockind degradation following phospho-Tyr1068 (9). site for the Shc scaffol Phosphorylation of EGFR carboxy-termina	ily. Ligand binding eam signaling, inter) at Tyr845 in the kies state enzyme, and of PLCγ-mediated of PLCγ-mediated of Site for the adapt EGFR activation (7 A pair of phosphord protein, with both of Tesidues Ser1046 at specific sering the serious serious in residues Ser1046	tor is a transmembrane results in receptor dime nalization, and lysosom nase domain is implicat providing a binding sui Tyr845 (5). The SH2 dordownstream signaling (6 tor protein c-Cbl, leadin 8). The GRB2 adaptor polated EGFR residues (Tyh sites involved in MAP leand Ser1047 are phosplulated EGFR tyrosine audales.	rization, autophosp al degradation (1,2 ed in stabilizing the face for substrate p main of PLCγ binds b). Phosphorylation g to receptor ubique rotein binds activate r1148 and Tyr1173 kinase signaling act as attenuates EGFR norylated by CaM k	chorylation, b. Phosphorylation cactivation loop, broteins (3,4). c-Src at phospho-Tyr992, of EGFR at Tyr1045 itination and ed EGFR at provide a docking ivation (2). kinase activity. inase II; mutation
Background Re	eferences	2. Zwick, E. et al. (1995) 3. Cooper, J.A. and How 4. Hubbard, S.R. et al. 5. Biscardi, J.S. et al. (1966) 6. Emlet, D.R. et al. (1977) 7. Levkowitz, G. et al. (8. Ettenberg, S.A. et al. 9. Rojas, M. et al. (199	, P.O. et al. (1999) <i>Curr Opin Cell Biol</i> 11, 184-9. E. et al. (1999) <i>Trends Pharmacol Sci</i> 20, 408-12. r, J.A. and Howell, B. (1993) <i>Cell</i> 73, 1051-4. rd, S.R. et al. (1994) <i>Nature</i> 372, 746-54. di, J.S. et al. (1999) <i>J Biol Chem</i> 274, 8335-43. D.R. et al. (1997) <i>J Biol Chem</i> 272, 4079-86. vitz, G. et al. (1999) <i>Mol Cell</i> 4, 1029-40. erg, S.A. et al. (1999) <i>Oncogene</i> 18, 1855-66. M. et al. (1996) <i>J Biol Chem</i> 271, 27456-61. nesser, R.L. et al. (1999) <i>J Biol Chem</i> 274, 16168-73.			

Species Reactivity

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 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 R: Rat Mk: Monkey

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