Store at -20C

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Phospho-EGF Receptor (Tyr1068) (1H12) Mouse mAb (Sepharose[®] Bead Conjugate)



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Applications: IP	Reactivity: H R Mk	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Mouse IgG1	UniProt ID: #P00533	Entrez-Gene Id: 1956		
Product Usage Information	9	Application Immunoprecipitation		Dilution 1:20				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol. Store at –20°C. Do not aliquot the antibodies.						
Specificity/Sensitivity		Phospho-EGF Receptor (Tyr1068) (1H12) Mouse mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of EGF receptor only when phosphorylated at Tyr1068. This antibody does not recognize EGF receptor phosphorylated at other sites, but may cross-react with other activated ErbB family members.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1068 of human EGF receptor.						
Description		This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose [®] beads. Phospho-EGF Receptor (Tyr1068) (1H12) Mouse mAb (Sepharose [®] Bead Conjugate) is useful for the immunoprecipitation of EGF receptor that is phosphorylated at Tyr1068. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-EGF Receptor (Tyr1068) (1H12)						
Background		The epidermal growth factor (EGF) receptor is a transmembrane tyrosine kinase that belongs to the HER/ErbB protein family. Ligand binding results in receptor dimerization, autophosphorylation, activation of downstream signaling, internalization, and lysosomal degradation (1,2). Phosphorylation of EGF receptor (EGFR) at Tyr845 in the kinase domain is implicated in stabilizing the activation loop, maintaining the active state enzyme, and providing a binding surface for substrate proteins (3,4). c-Src is involved in phosphorylation of EGFR at Tyr845 (5). The SH2 domain of PLCy binds at phospho-Tyr992, resulting in activation of PLCy-mediated downstream signaling (6). Phosphorylation of EGFR at Tyr1045 creates a major docking site for the adaptor protein c-Cbl, leading to receptor ubiquitination and degradation following EGFR activation (7,8). The GRB2 adaptor protein binds activated EGFR at phospho-Tyr1068 (9). A pair of phosphorylated EGFR residues (Tyr1148 and Tyr1173) provide a docking site for the Shc scaffold protein, with both sites involved in MAP kinase signaling activation (2). Phosphorylation of EGFR at specific serine and threonine residues attenuates EGFR kinase activity. EGFR carboxy-terminal residues Ser1046 and Ser1047 are phosphorylation (10).						
Background References 1. Hackel, P.O. et al. (1999) Curr Opin Cell Biol 11, 184-9. 2. Zwick, E. et al. (1999) Trends Pharmacol Sci 20, 408-12. 3. Cooper, J.A. and Howell, B. (1993) Cell 73, 1051-4. 4. Hubbard, S.R. et al. (1994) Nature 372, 746-54. 5. Biscardi, J.S. et al. (1997) J Biol Chem 274, 8335-43. 6. Emlet, D.R. et al. (1997) J Biol Chem 272, 4079-86. 7. Levkowitz, G. et al. (1999) Mol Cell 4, 1029-40. 8. Ettenberg, S.A. et al. (1999) J Biol Chem 271, 27456-61. 10. Feinmesser, R.L. et al. (1999) J Biol Chem 274, 16168-73.								
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Applications K	ey	IP: Immunoprecipitation						
Cross-Reactivit	ty Key	H: Human R: Rat Mk: Monkey						
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