## #8543 Store at -20C

## Phospho-EGF Receptor (Tyr1068) (D7A5) XP<sup>®</sup> Rabbit mAb (Biotinylated)



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

Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 175	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P00533	Entrez-Gene Id: 1956	
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000		
Storage				nM sodium phosphate ( d 50% glycerol. Store at -			
Specificity/Sensitivity		Phospho-EGF Receptor (Tyr1068) (D7A5) XP <sup>®</sup> Rabbit mAb (Biotinylated) detects endogenous EGF receptor only when phosphorylated at Tyr1068. This antibody may cross-react weakly with other tyrosine-phosphorylated proteins.					
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1068 of human EGF receptor protein.					
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-EGF Receptor (Tyr1068) (D7A5) XP <sup>®</sup> Rabbit mAb #3777.					
Background		HER/ErbB protein fam activation of downstra of EGF receptor (EGFF maintaining the activa is involved in phosphor resulting in activation creates a major docki degradation following phospho-Tyr1068 (9). site for the Shc scaffo Phosphorylation of EC EGFR carboxy-termina	illy. Ligand binding eam signaling, inter at Tyr845 in the ki e state enzyme, and orylation of EGFR at of PLCγ-mediated of ng site for the adap g EGFR activation (7, A pair of phosphon ld protein, with bot GFR at specific serin al residues Ser1046	or is a transmembrane results in receptor dime nalization, and lysosom nase domain is implicat providing a binding sur Tyr845 (5). The SH2 don downstream signaling (6 tor protein c-Cbl, leading 8). The GRB2 adaptor pr dated EGFR residues (Ty n sites involved in MAP k e and threonine residue and Ser1047 are phosph ulated EGFR tyrosine au	rization, autophosp al degradation (1,2) ed in stabilizing the face for substrate p nain of PLCy binds a b). Phosphorylation g to receptor ubiqu rotein binds activate r1148 and Tyr1173) sinase signaling act s attenuates EGFR h norylated by CaM ki	horylation, . Phosphorylation activation loop, proteins (3,4). c-Src at phospho-Tyr992, of EGFR at Tyr1045 itination and ed EGFR at provide a docking ivation (2). kinase activity. nase II; mutation	
Background Re	eferences	1. Hackel, P.O. et al. (1 2. Zwick, E. et al. (1999) 3. Cooper, J.A. and Ho 4. Hubbard, S.R. et al. 5. Biscardi, J.S. et al. (19 6. Emlet, D.R. et al. (19 7. Levkowitz, G. et al. 8. Ettenberg, S.A. et a 9. Rojas, M. et al. (199 10. Feinmesser, R.L. et	<ul> <li>D) Trends Pharmacc</li> <li>Well, B. (1993) Cell 7</li> <li>(1994) Nature 372,</li> <li>(1999) J Biol Chem 272</li> <li>(1999) J Biol Chem 272</li> <li>(1999) Mol Cell 4, 10</li> <li>(1999) Oncogene</li> <li>(1999) J Biol Chem 271,</li> </ul>	<i>l Sci</i> 20, 408-12. 3, 1051-4. 746-54. 4, 8335-43. 2, 4079-86. 29-40. 18, 1855-66. 27456-61.			
Species Reactiv	vity	Species reactivity is do	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot B	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted haking, overnight.	primary antibody ii	ר 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting					
Cross-Reactivit	ty Key	H: Human M: Mouse	<b>R:</b> Rat <b>Mk:</b> Monkey				

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