## #14565 store at +40

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



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P00533	Entrez-Gene Id: 1956		
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.					
Specificity/Sensi	<b>City/Sensitivity</b> Phospho-EGF Receptor (Tyr1068) (D7A5) XP <sup>®</sup> Rabbit mAb (PE Conjugate) recognizes endogenous EGF receptor only when phosphorylated at Tyr1068. This antibody may cross-react weakly with other tyrosine-phosphorylated proteins.						
Source / Purifica	tion	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 conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The 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		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 PLCγ binds at phospho-Tyr992, resulting in activation of PLCγ-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 phosphorylated by CaM kinase II; mutation of either of these serines results in upregulated EGFR tyrosine autophosphorylation (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. (1999) 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) Oncogene 18, 1855-66.   9. Rojas, M. et al. (1996) J Biol Chem 271, 27456-61.   10. Feinmesser, R.L. et al. (1999) J Biol Chem 274, 16168-73.							
Species Reactivit	у	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	Кеу	H: Human M: Mouse R: Rat Mk: Monkey					
Trademarks and Patents		5 5 5	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		XP is a registered tradem	hark of Cell Signaling Tecl	hnology, Inc.			

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

## **Limited Uses**

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party. whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.