

*‡*8839

EGF Receptor (D38B1) XP[®] 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

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Applications: FC-FP	Reactivity: H M Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956
Product Usage Information		Application 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/Sensitivity		EGF Receptor (D38B1) XP [®] Rabbit mAb (PE Conjugate) detects endogenous levels of total EGF receptor protein. The antibody does not cross-react with other proteins of the ErbB family.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a fusion protein containing the cytoplasmic domain of human EGF receptor protein.			
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 EGF Receptor (D38B1) XP [®] Rabbit mAb #4267.			
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 phosphorylated by CaM kinase II; mutation of either of these serines results in upregulated EGFR tyrosine autophosphorylation (10).			
Background References		 Hackel, P.O. et al. (1999) Curr Opin Cell Biol 11, 184-9. Zwick, E. et al. (1999) Trends Pharmacol Sci 20, 408-12. Cooper, J.A. and Howell, B. (1993) Cell 73, 1051-4. Hubbard, S.R. et al. (1994) Nature 372, 746-54. Biscardi, J.S. et al. (1999) J Biol Chem 274, 8335-43. Emlet, D.R. et al. (1997) J Biol Chem 272, 4079-86. Levkowitz, G. et al. (1999) Mol Cell 4, 1029-40. Ettenberg, S.A. et al. (1999) Oncogene 18, 1855-66. Rojas, M. et al. (1996) J Biol Chem 271, 27456-61. Feinmesser, R.L. et al. (1999) J Biol Chem 274, 16168-73. 			

Species Reactivity

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 Key H: Human M: Mouse Mk: Monkey

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