

#5588

EGF Receptor (D38B1) XP[®] Rabbit mAb (Alexa Fluor[®] 647 Conjugate)



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Applications: IF-IC, FC-FP	Reactivity: H M Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956
Product Usage Information					Dilution 1:800 1:50
Storage	ge Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BS antibody. Protect from light. Do not freeze.				A. Store at 4°C. Do not aliquot the
Specificity/Sensitivity		EGF Receptor (D38B1) XP [®] Rabbit mAb (Alexa Fluor [®] 647 Conjugate) detects endogenous levels of total EGF receptor protein. The antibody does not cross-react with other proteins of the ErbB family. Species cross-reactivity by IF-IC is human only.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a fusion protein containing the cytoplasmic domain of human EGF receptor.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. This 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		1. Hackel, P.O. et al. (1999) <i>Curr Opin Cell Biol</i> 11, 184-9. 2. Zwick, E. et al. (1999) <i>Trends Pharmacol Sci</i> 20, 408-12. 3. Cooper, J.A. and Howell, B. (1993) <i>Cell</i> 73, 1051-4. 4. Hubbard, S.R. et al. (1994) <i>Nature</i> 372, 746-54. 5. Biscardi, J.S. et al. (1999) <i>J Biol Chem</i> 274, 8335-43. 6. Emlet, D.R. et al. (1997) <i>J Biol Chem</i> 272, 4079-86. 7. Levkowitz, G. et al. (1999) <i>Mol Cell</i> 4, 1029-40. 8. Ettenberg, S.A. et al. (1999) <i>Oncogene</i> 18, 1855-66. 9. Rojas, M. et al. (1996) <i>J Biol Chem</i> 271, 27456-61. 10. Feinmesser, 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).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human M: Mouse Mk: Monkey

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