EGF Receptor (D1P9C) Rabbit mAb



Orders:877-616-CELL (2355)
orders@cellsignal.comSupport: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: W, IP, IHC-P, IF-F, IF- IC, FC-FP	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit IgG	UniProt ID: #Q01279	Entrez-Gene Id: 13649	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemist Immunofluorescence Immunofluorescence Flow Cytometry (Fixed	try (Paraffin) e (Frozen) e (Immunocytochem	nistry)		Dilution 1:1000 1:100 1:100 1:400 1:400 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		For a carrier free (BSA and azide free) version of this product see product #88433. EGF Receptor (D1P9C) Rabbit mAb recognizes endogenous levels of total mouse EGF receptor protein. This antibody cross-reacts very weakly with overexpressed human EGF receptor.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of mouse EGF receptor protein.					
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 Ref	erences	1. Hackel, P.O. et al. (1 2. Zwick, E. et al. (199 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. e	9) Trends Pharmaco well, B. (1993) <i>Cell</i> 7 . (1994) <i>Nature</i> 372, 1999) <i>J Biol Chem</i> 27 997) <i>J Biol Chem</i> 27 . (1999) <i>Mol Cell</i> 4, 10 II. (1999) <i>Oncogene</i> 26) <i>J Biol Chem</i> 271,	<i>bl Sci</i> 20, 408-12. 73, 1051-4. 746-54. 74, 8335-43. 2, 4079-86. 029-40. 18, 1855-66. 27456-61.			
Species Reactivi	ty	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					

Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescence (Frozen) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	M: Mouse			
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.			
	Alexa Fluor is a registered trademark of Life Technologies Corporation.			
	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 purpose, 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 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.			