Cell Signaling Store at -20C Phospho-EGF Receptor (Tyr1086) Antibody J. 877-616-CELL (2355) orders@cellsignal.com Orders: Support: 20 Web: 3 Trask Lane | Danvers | Massachusetts | 01923 | USA

877-678-TECH (8324)

info@cellsignal.com cellsignal.com

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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit	UniProt ID: #P00533	Entrez-Gene Id: 1956
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-EGF Receptor (Tyr1086) Antibody detects endogenous EGF receptors only when phosphorylated at Tyr1086. This antibody does not cross-react with other EGFR family members.				
Species predicted to react based on 100% sequence homology		Rat, Dog				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1086 of human EGF receptor. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		HER/ÉrbB protein fam activation of downstre of EGF receptor (EGFR maintaining the active is involved in phospho resulting in activation creates a major dockin degradation following phospho-Tyr1068 (9) site for the Shc scaffol Phosphorylation of EGE EGFR carboxy-termina of either of these serin Phospho-EGF Recepto phosphorylation site a PhosphoScan [®] , CST's	ily. Ligand binding am signaling, inter) at Tyr845 in the ki e state enzyme, and orylation of EGFR at of PLCy-mediated on g site for the adap EGFR activation (7, A pair of phosphony d protein, with bot iSFR at specific serin al residues Ser1046 nes results in upreg r (Tyr1086) Antiboo at Tyr1086 that was LC-MS/MS platform	tor is a transmembrane results in receptor dime nalization, and lysosom nase domain is implicat l providing a binding sur Tyr845 (5). The SH2 dor downstream signaling (6 tor protein c-Cbl, leadin 8). The GRB2 adaptor pr ylated EGFR residues (Ty h sites involved in MAP k e and threonine residue and Ser1047 are phosph yulated EGFR tyrosine au ly is directed against a p identified at Cell Signali for phosphorylation sit ct carcinoma cell lines a	rization, autophosp al degradation (1,2) ed in stabilizing the face for substrate p nain of PLCγ binds of bi). Phosphorylation g to receptor ubiqu rotein binds activation r1148 and Tyr1173 kinase signaling act s attenuates EGFR horylated by CaM ki tophosphorylation reviously unpublish ng Technology (CST e discovery. Phosph	bhorylation, 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. inase II; mutation (10). red EGF receptor I) using
Background R	eferences	1. Hackel, P.O. et al. (19 2. Zwick, E. et al. (1995 3. Cooper, J.A. and Hov 4. Hubbard, S.R. et al. 5. Biscardi, J.S. et al. (1 6. Emlet, D.R. et al. (19 7. Levkowitz, G. et al. (8. Ettenberg, S.A. et al 9. Rojas, M. et al. (1990 10. Feinmesser, R.L. et	 <i>Trends Pharmacc</i>, well, B. (1993) <i>Cell</i> 7 (1994) <i>Nature</i> 372, 999) <i>J Biol Chem</i> 272 979) <i>J Biol Chem</i> 272 1999) <i>Mol Cell</i> 4, 10 . (1999) <i>Oncogene</i> <i>J Biol Chem</i> 271, 1990 	<i>vl Sci</i> 20, 408-12. '3, 1051-4. 746-54. '4, 8335-43. 2, 4079-86.)29-40. 18, 1855-66. 27456-61.		
Species Reacti	vity	Species reactivity is de	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				

Cross-Reactivity Key	H: Human M: Mouse			
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, 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 CS ² 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 n 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.			