#

e at -20C	EGF Receptor Control Cell Extracts		Cell Signaling TECHNOLOGY®	
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com	
L+	Controls for 10 western blots	Support:	877-678-TECH (8324)	
‡ 563⊿		Web:	info@cellsignal.com cellsignal.com	
#5	3 Trask L	ane Danvers Mass	achusetts 01923 USA	

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

Product Includes		Product #	Quantity	
GF Receptor Control Cell Extracts (A	91047	150 μl 150 μl		
GF Receptor Control Cell Extracts (A4	20417			
Description	Nonphosphorylated EGF Receptor Control Cell Extracts: Total extracts from A431 cells, serum starved overnight to serve as a negative control. Supplied in SDS Sample Buffer.			
	Phosphorylated EGF Receptor Control Cell Extracts: Tot overnight and treated with 100 ng/ml hEGF #8916 for 1 Supplied in SDS Sample Buffer.			
Storage	Supplied in SDS Sample Buffer: 62.5 mM Tris-HCl (pH 6 DTT, 0.01% w/v phenol red or bromophenol blue. Store			
Background	HER/ErbB protein family. Ligand binding results in rece activation of downstream signaling, internalization, an of EGF receptor (EGFR) at Tyr845 in the kinase domain maintaining the active state enzyme, and providing a b is involved in phosphorylation of EGFR at Tyr845 (5). Th resulting in activation of PLCγ-mediated downstream s creates a major docking site for the adaptor protein c-0 degradation following EGFR activation (7,8). The GRB2 phospho-Tyr1068 (9). A pair of phosphorylated EGFR re site for the Shc scaffold protein, with both sites involve Phosphorylation of EGFR at specific serine and threoni	cceptor is a transmembrane tyrosine kinase that belongs to the ling results in receptor dimerization, autophosphorylation, internalization, and lysosomal degradation (1,2). Phosphorylation ne kinase domain is implicated in stabilizing the activation loop, and providing a binding surface for substrate proteins (3,4). c-Src R at Tyr845 (5). The SH2 domain of PLCγ binds at phospho-Tyr992, ted downstream signaling (6). Phosphorylation of EGFR at Tyr1045 adaptor protein c-Cbl, leading to receptor ubiquitination and in (7,8). The GRB2 adaptor protein binds activated EGFR at whorylated EGFR residues (Tyr1148 and Tyr1173) provide a docking both sites involved in MAP kinase signaling activation (2). serine and threonine residues attenuates EGFR kinase activity. 046 and Ser1047 are phosphorylated by CaM kinase II; mutation pregulated EGFR tyrosine autophosphorylation (10).		
Directions for Use	Boil for 3 minutes prior to use. Load 15 µl of phosphor Control Cell Extracts per lane.	ylated and nonphosphor	ylated EGF Receptor	
Background References	 Hackel, P.O. et al. (1999) <i>Curr Opin Cell Biol</i> 11, 184-9 Zwick, E. et al. (1999) <i>Trends Pharmacol Sci</i> 20, 408-1 Cooper, J.A. and Howell, B. (1993) <i>Cell</i> 73, 1051-4. Hubbard, S.R. et al. (1994) <i>Nature</i> 372, 746-54. Biscardi, J.S. et al. (1999) <i>J Biol Chem</i> 274, 8335-43. Emlet, D.R. et al. (1997) <i>J Biol Chem</i> 272, 4079-86. Levkowitz, G. et al. (1999) <i>Mol Cell</i> 4, 1029-40. Ettenberg, S.A. et al. (1999) <i>Oncogene</i> 18, 1855-66. Rojas, M. et al. (1996) <i>J Biol Chem</i> 271, 27456-61. Feinmesser, R.L. et al. (1999) <i>J Biol Chem</i> 274, 16168 	2.		
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signali	ng Technology, Inc.		
	All other trademarks are the property of their respective more information.	ve owners. Visit cellsigna	l.com/trademarks for	
Limited Uses	Except as otherwise expressly agreed in a writing signe the following terms apply to Products provided by CST, terms and conditions that are in addition to, or differen separately accepted in writing by a legally authorized r force or effect.	, its affiliates or its distrib nt from, those contained	outors. Any Customer's herein, unless	

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.