# £969*‡*

# Phospho-EGF Receptor (Tyr845) (D63B4) Rabbit mAb



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

<b>Applications:</b> W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 175	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100	
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		Phospho-EGF Receptor (Tyr845) (D63B4) Rabbit mAb recognizes endogenous levels of EGFR protein only when phosphorylated at Tyr845. This antibody may detect other activated ErbB family members.				
Species predict based on 100% homology		Mouse, Rat, Monkey				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr845 of human EGFR protein.				
Background		HER/ErbB protein famil activation of downstrea of EGF receptor (EGFR) maintaining the active is involved in phosphor resulting in activation ocreates a major dockindegradation following phospho-Tyr1068 (9). A site for the Shc scaffold Phosphorylation of EGFR carboxy-terminal	y. Ligand binding am signaling, inter at Tyr845 in the k state enzyme, and ylation of EGFR at f PLCγ-mediated g site for the adapt EGFR activation (7 pair of phosphor I protein, with bot residues Ser1046	tor is a transmembrane results in receptor dime realization, and lysosominase domain is implicated providing a binding sure Tyr845 (5). The SH2 dondownstream signaling (6) tor protein c-Cbl, leading, 8). The GRB2 adaptor protein the GRB2 adaptor	rization, autophosp al degradation (1,2) ed in stabilizing the face for substrate p nain of PLCγ binds of c). Phosphorylation g to receptor ubique rotein binds activator r1148 and Tyr1173) kinase signaling act s attenuates EGFR l norylated by CaM ki	chorylation, . Phosphorylation activation loop, broteins (3,4). c-Src at phospho-Tyr992, of EGFR at Tyr1045 itination and ed EGFR at provide a docking ivation (2). kinase activity. nase II; mutation
Background References		1. Hackel, P.O. et al. (19 2. Zwick, E. et al. (1999) 3. Cooper, J.A. and How 4. Hubbard, S.R. et al. (19 5. Biscardi, J.S. et al. (19 6. Emlet, D.R. et al. (19 7. Levkowitz, G. et al. (1 8. Ettenberg, S.A. et al. 9. Rojas, M. et al. (1996 10. Feinmesser, R.L. et al.	Trends Pharmacc ell, B. (1993) Cell 7 1994) Nature 372, 199) J Biol Chem 27 17) J Biol Chem 27 1999) Mol Cell 4, 10 (1999) Oncogene ) J Biol Chem 271,	ol Sci 20, 408-12. 73, 1051-4. 746-54. 74, 8335-43. 2, 4079-86. 029-40. 18, 1855-66. 27456-61.		
Species Reactivity		Species reactivity is det	ermined 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

**Cross-Reactivity Key** 

H: Human

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