EGF Receptor (D38B1) XP® Rabbit mAb (HRP Conjugate)



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

Futura Cana Ide

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Linibant ID.

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

Applications: WB	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 175	Source/Isotype: Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20° C. Do not aliquot the antibodies.					
Specificity / Sensiti		EGF Receptor (D38B1) XP [®] Rabbit mAb (HRP Conjugate) detects endogenous levels of total EGF receptor protein. The antibody does not cross-react with other proteins of the ErbB family.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a fusion protein containing the cytoplasmic domain of human EGF receptor.					
Product Description	perc	xidase (HRP) via it	nnology [®] antibody is conjugated to the carbohydrate groups of horseradish s amine groups. The HRP conjugated antibody is expected to exhibit the same as the unconjugated EGF Receptor (D38B1) XP [®] Rabbit mAb #4267.				

MANA (LDs).

MW (kDa) 175

Compiting

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

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- 2. Zwick, E. et al. (1999) Trends Pharmacol Sci 20, 408-12.
- 3. Cooper, J.A. and Howell, B. (1993) Cell 73, 1051-4.
- 4. Hubbard, S.R. et al. (1994) Nature 372, 746-54.
- 5. Biscardi, J.S. et al. (1999) J Biol Chem 274, 8335-43.
- 6. Emlet, D.R. et al. (1997) J Biol Chem 272, 4079-86.
- 7. Levkowitz, G. et al. (1999) Mol Cell 4, 1029-40.
- 8. Ettenberg, S.A. et al. (1999) Oncogene 18, 1855-66.
- 9. Rojas, M. et al. (1996) J Biol Chem 271, 27456-61.
- 10. Feinmesser, R.L. et al. (1999) J Biol Chem 274, 16168-73.

Species Reactivity

Species reactivity is determined by testing in at least one approved 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.

1/1/24, 12:51 PM EGF Receptor (D38B1) XP® Rabbit mAb (HRP Conjugate) (#8504) Datasheet Without Images Cell Signalin...

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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