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Recombinant Phospho-EGFR (Tyr1173) Monoclonal Antibody

catalog number: AN302101L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Reactivity Human;

Immunogen Peptide. This information is proprietary to PTMab

 Host
 Rabbit

 Isotype
 IgG, κ

 Clone
 A825

Purification Protein A purified

Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

WB 1:1000

IF 1:1000

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

Background

The epidermal growth factor (EGF) receptor is a transmembrane tyrosine kinase that belongs to the HER/ErbB protein family. Ligand bindingresults in receptor dimerization, autophosphorylation, activation of downstream signaling, internalization, and lysosomal degradation. Phosphorylation of EGF receptor (EGFR) at Tyr845 in the kinase domain is implicated in stabilizing the activation loop, maintaining the activestate enzyme, and providing a binding surface for substrate proteins. c-Src is involved in phosphorylation of EGFR at Tyr845. The SH2 domainof PLCy binds at phospho-Tyr992, resulting in activation of PLCy-mediated downstream signaling. Phosphorylation of EGFR at Tyr1045creates a major docking site for the adaptor protein c-Cbl, leading to receptor ubiquitination and degradation following EGFR activation. TheGRB2 adaptor protein binds activated EGFR at phospho-Tyr1068. A pair of phosphorylated EGFR residues (Tyr1148 and Tyr1173) provide adocking site for the Shc scaffold protein, with both sites involved in MAP kinase signaling activation. Phosphorylation of EGFR at specificserine and threonine residues attenuates EGFR kinase activity. EGFR carboxy-terminal residues Ser1046 and Ser1047 are phosphorylatedby CaM kinase II; mutation of either of these serines results in upregulated EGFR tyrosine autophosphorylation.

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 Toll-free: 1-888-852-8623
 Tel: 1-832-243-6086
 Fax: 1-832-243-6017

 Web: www.elabscience.com
 Email: techsupport@elabscience.com

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