

Anti-Phospho-EGF Receptor (Tyr845) Antibody (8P639)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human; Species predicted to react based on 100% sequence homology: Mouse, rat
Conjugation:	Unconjugated
Clone:	8P639
Purification:	Protein A

Applications

Verified Activity:	<ol style="list-style-type: none">1. Western blot analysis of extracts from serum-starved Hela, untreated (-) or treated with EGF (10 ng/mL, 10min) using Phospho-EGF Receptor (Tyr845) rabbit monoclonal Antibody at 1:1000 dilution (upper), Anti-EGFR Antibody at 1:1000 dilution (lower).2. Western blot analysis of extracts from serum-starved Hela, untreated (line A); treated with EGF (100ng/mL, 10min; +) (line B); treated with EGF and λ-phosphatase (line C) using Phospho-EGF Receptor (Tyr845) rabbit monoclonal Antibody at 1:1000 dilution. (Validation Experiment)3. Western blot analysis of extracts from serum-starved Hela, untreated (line A); treated with EGF (100ng/mL, 10min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-EGF Receptor (Tyr845) rabbit monoclonal Antibody at 1:1000 dilution. (Validation Experiment)
Application:	WB
Recommended	WB: 1:1000-1:10000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthetic peptide: residues around Tyr845 of the Human Phospho-EGF Receptor
Antigen Species:	Human
Synonyms:	PIG61;p-EGF Receptor (Tyr845);HER1;ERRP;EGF Receptor (p-Y845);ERBB-1;ERBB;Phospho-EGF Receptor (Y845);ERBB1;NISBD2;HER-1;p-EGF Receptor (Y845);mENA;EGF Receptor (p-Tyr845)
Biology Area:	Cancer Drug Targets, Receptor Tyrosine Kinases (RTKs)

Research Background

As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF- α , betacellulin, etc. EGFR protein plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation. Binding of a ligand induces EGFR protein homo- or heterodimerization, the subsequent tyrosine autophosphorylation and initiates various down stream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently. Cancer Immunotherapy Immune

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