



A Reliable Research Partner in Life Science and Medicine

Phospho-EGFR (Thr693) Polyclonal Antibody

Catalog No. E-AB-20858

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

Description

Reactivity Human, Mouse, Rat

Synthesized peptide derived from human EGFR around the phosphorylation site of **Immunogen**

T693.

Host Rabbit **Isotype** IgG

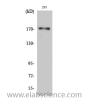
Purification Affinity purification

Buffer PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

Applications Recommended Dilution

WB 1:500-1:2000 **IHC** 1:100-1:300 IF 1:200-1:1000 **ELISA** 1:40000

Data



Western Blot analysis of 293 cells with Phospho-EGFR

(Thr693) Polyclonal Antibody. Observed Mw:180,134kDa Calculated Mw:134kDa

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

Background

Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF-alpha, amphiregulin, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like

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RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin.Isoform 2 may act as an antagonist of EGF action.

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