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Phospho-EGFR (Y1092) Antibody

Product Code	CSB-RA007479A1092phHU
Abbreviation	Epidermal growth factor receptor
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P00533
Immunogen	A synthesized peptide derived from Human Phospho-EGFR (Y1092)
Species Reactivity	Human
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:5000
Relevance	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 Activates at least 4 major downstream signaling cascades. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like 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. Plays a role in enhancing learning and memory performance (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Epidermal growth factor receptor, Proto-oncogene c-ErbB-1, Receptor tyrosine- protein kinase erbB-1, EGFR, ERBB, ERBB1, HER1
Immunogen Species	Homo sapiens (Human)
Research Area	Signal Transduction
Gene Names	EGFR
Accession NO.	3H9
Image	

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Description

The DNA sequence coding for the phospho-EGFR (Y1092) monoclonal antibody produced from the animals with the phospho-peptide corresponding to human EIF2S1 (phospho Y1092)immunization was cloned into the expression vector, which was further transfected into a cell line for in vitro expression. The product is the recombinant phospho-EGFR (Y1092) monoclonal antibody. It specifically targets the pY1092-EGFR from human. It belongs to the rabbit IgG. The affinity-chromatography purification method was used to purify this phospho-EGFR (Y1092) antibody. ELISA and WBanalyses have been tested for this phospho-EGFR (Y1092) antibody.

EGFR is a transmembrane receptor tyrosine kinase that is highly glycosylated. EGFR undergoes conformational changes to dimerize after binding EGF, leading to kinase activation, autophosphorylation, and downstream signaling. By activating multiple signaling pathways involved in cell proliferation, angiogenesis, invasion, metastasis, and apoptosis, EGFR promotes tumor development and progression.