

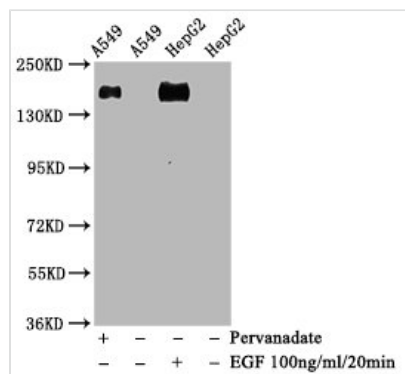


# Phospho-EGFR (Y1068) Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA007479A1068phHU
<b>Abbreviation</b>	Epidermal growth factor receptor
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P00533
<b>Immunogen</b>	A synthesized peptide derived from Human Phospho-EGFR (Y1068)
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, WB; Recommended dilution: WB:1:500-1:5000
<b>Relevance</b>	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 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).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Alias</b>	Epidermal growth factor receptor, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, EGFR, ERBB, ERBB1, HER1
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Signal Transduction
<b>Gene Names</b>	EGFR
<b>Clone No.</b>	1B8



## Image



### Western Blot

Positive WB detected in A549 whole cell lysate, HepG2 whole cell lysate(treated with EGF or Pervanadate)

All lanes Phospho-EGFR antibody at 1.28μg/ml

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 175 KDa

Observed band size: 175 KDa

## Description

The phospho-EGFR (Y1068) recombinant monoclonal antibody is yielded through the implementation of protein technology and DNA recombinant techniques. Initially, animals are immunized with a synthesized peptide derived from human phospho-EGFR (Y1068). Next, B cells are obtained from the mice. Through a screening process, positive B cells are selected and undergo single clone identification. The light and heavy chains of the phospho-EGFR (Y1068) antibody are then amplified via PCR and inserted into a plasmid vector, creating a recombinant vector, which is transfected into host cells for the expression of the antibody. Subsequently, the phospho-EGFR (Y1068) recombinant monoclonal antibody is purified from the cell culture supernatant using affinity chromatography. It is recommended for use in ELISA and WB for the detection of human EGFR phosphorylated at Y1068 residue.