

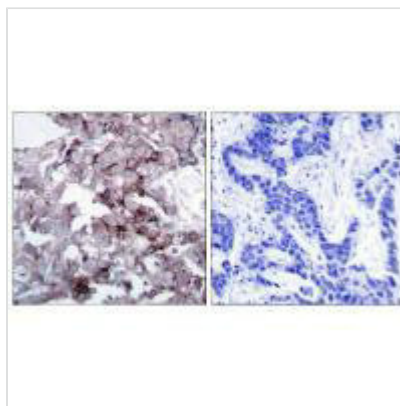


EGFR (Ab-1172) Antibody

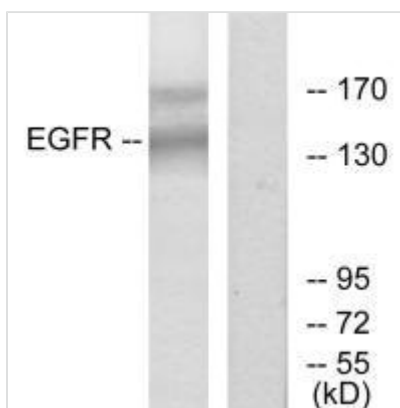
Product Code	CSB-PA579851
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P00533
Immunogen	Synthesized non-phosphopeptide derived from Human EGFR around the phosphorylation site of tyrosine 1172 (P-D-Y(p)-Q-Q).
Raised In	Rabbit
Species Reactivity	Human, Mouse
Specificity	The antibody detects endogenous levels of total EGFR protein.
Tested Applications	ELISA, WB, IHC, IF; WB:1:500-1:3000, IHC:1:50-1:100, IF:1:100-1:500
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 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. Isoform 2 may act as an antagonist of EGF action. Ullrich A., Nature 309:418-425(1984). Ilekis J.V., Mol. Reprod. Dev. 41:149-156(1995). Reiter J.L., Nucleic Acids Res. 24:4050-4056(1996)
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	EC 2.7.10.1; epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog; avian); Epidermal growth factor receptor precursor; ERBB1
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	EGFR



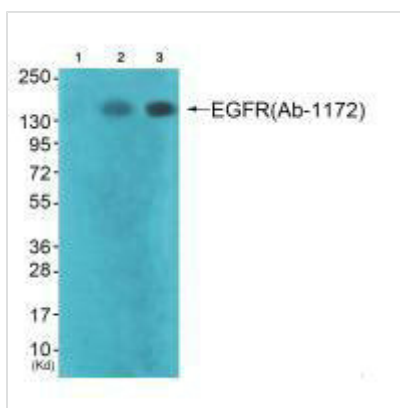
Image



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using EGFR (Ab-1172) antibody.



Western blot analysis of extracts from HT-29 cells, using EGFR (Ab-1172) antibody.



Western blot analysis of extracts from A549 cells (Lane 2) and HepG2 cells (Lane 3), using EGFR (Ab-1172) antibody. The lane on the left is treated with synthesized peptide.