EGFR (Ab-1172) Antibody

Catalog No: #33189

Package Size: #33189-1 50ul #33189-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

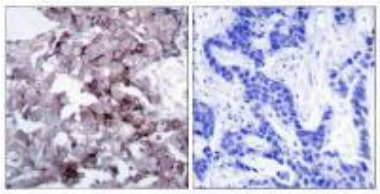
Product Name	EGFR (Ab-1172) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB IHC IF
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total EGFR protein.
Immunogen Type	Peptide
Immunogen Description	Synthesized non-phosphopeptide derived from human EGFR around the phosphorylation site of tyrosine 1172 (P-D-Y(p)-Q-Q).
Target Name	EGFR
Other Names	EC 2.7.10.1; epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog; avian); Epidermal growth factor receptor precursor; ERBB1
Accession No.	Swiss-Prot: P00533NCBI Gene ID: 1956
Uniprot	P00533
GeneID	1956;
SDS-PAGE MW	175kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

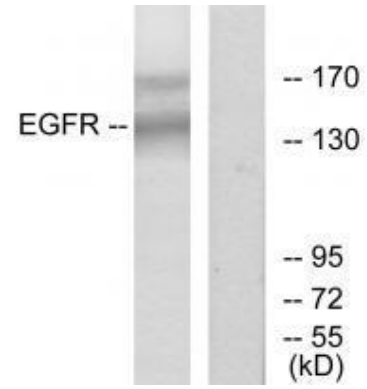
Western blotting: 1:500~1:3000

Immunohistochemistry: 1:50~1:100

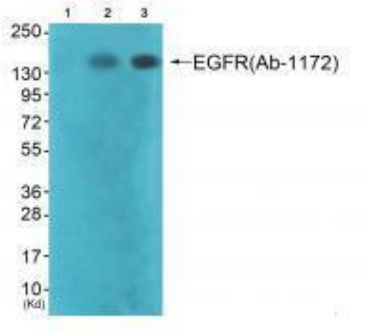
Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using EGFR (Ab-1172) antibody #33189.



Western blot analysis of extracts from HT-29 cells, using EGFR (Ab-1172) antibody #33189.



Western blot analysis of extracts from A549 cells (Lane 2) and HepG2 cells (Lane 3), using EGFR (Ab-1172) antiobdy #33189. The lane on the left is treated with synthesized peptide.

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 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)

Note: This product is for in vitro research use only