

EGFR (phospho Tyr1016) Polyclonal Antibody

Catalog No: YP0877

Reactivity: Human; Mouse; Rat

Applications: WB;IHC;IF;ELISA

Target: EGFR

Fields: >>EGFR tyrosine kinase inhibitor resistance;>>Endocrine resistance;>>MAPK

signaling pathway;>>ErbB signaling pathway;>>Ras signaling pathway;>>Rap1

signaling pathway;>>Calcium signaling pathway;>>HIF-1 signaling pathway;>>FoxO signaling pathway;>>Phospholipase D signaling pathway;>>Endocytosis;>>PI3K-Akt signaling pathway;>>Focal adhesion;>>Adherens junction;>>Gap junction;>>JAK-STAT signaling

pathway;>>Regulation of actin cytoskeleton;>>GnRH signaling

pathway;>>Estrogen signaling pathway;>>Oxytocin signaling pathway;>>Relaxin

signaling pathway;>>Parathyroid hormone synthesis, secretion and

action;>>Cushing syndrome;>>Epithelial cell signaling in Helicobacter pylori

infection;>>Shigellosis;>>Hepatitis C;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Coronavirus disease -

COVID-19;>>Pathways in cancer;>>Proteoglycans in cancer;>>MicroRNAs in

cancer;>>Chemical carcinogenesis - receptor activation;>>Chemical

carcinogenesis - reactive oxygen species;>>Colorectal cance

Gene Name: EGFR

Protein Name : Epidermal growth factor receptor

Human Gene Id: 1956

Human Swiss Prot P00533

No:

Mouse Gene Id: 13649

Mouse Swiss Prot

No:

Q01279

Immunogen : The antiserum was produced against synthesized peptide derived from human

EGFR around the phosphorylation site of Tyr1016. AA range:986-1035

Specificity: Phospho-EGFR (Y1016) Polyclonal Antibody detects endogenous levels of



EGFR protein only when phosphorylated at Y1016.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not

yet tested in other applications.

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 175kD

Cell Pathway: MAPK_ERK_Growth;MAPK_G_Protein;ErbB_HER;Calcium;Cytokine-cytokine

receptor interaction; Endocytosis; Dorso-ventral axis formation; Focal adhesion; Adherens Junction; Gap junction; Regulates Actin and Cytosk

Background: The protein encoded by this gene is a transmembrane glycoprotein that is a

member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. [provided by RefSeq, Jun

2016].

Function: catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine

phosphate., disease: Defects in EGFR are associated with lung cancer [MIM:211980]., function: Isoform 2/truncated isoform may act as an

antagonist.,function:Receptor for EGF, but also for other members of the EGF family, as TGF-alpha, amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. Is involved in the control of cell growth and differentiation. Phosphorylates MUC1 in breast cancer cells and

increases the interaction of MUC1 with C-SRC and CTNNB1/beta-

catenin.,miscellaneous:Binding of EGF to the receptor leads to dimerization, internalization of the EGF-receptor complex, induction of the tyrosine kinase activity, stimulation of cell DNA synthesis, and cell proliferation.,online

information:EGFR entry,PTM:Monoubiquitinated and polyubiquitinated upon EGF

stimu

Subcellular Location:

Cell membrane ; Single-pass type I membrane protein . Endoplasmic reticulum membrane ; Single-pass type I membrane protein. Golgi apparatus membrane;

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Single-pass type I membrane protein. Nucleus membrane; Single-pass type I membrane protein. Endosome . Endosome membrane. Nucleus . In response to EGF, translocated from the cell membrane to the nucleus via Golgi and ER (PubMed:20674546, PubMed:17909029). Endocytosed upon activation by ligand (PubMed:2790960, PubMed:17182860, PubMed:27153536,

PubMed:17909029). Colocalized with GPER1 in the nucleus of estrogen agonist-induced cancer-associated fibroblasts (CAF) (PubMed:20551055). .; [Isoform 2]: Secreted.

Expression: Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.

Tag: orthogonal,hot

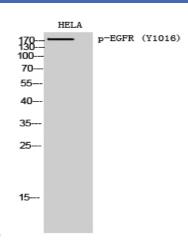
Sort: 890

No4:

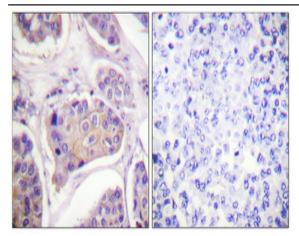
Host: Rabbit

Modifications: Phospho

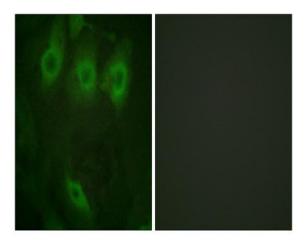
Products Images



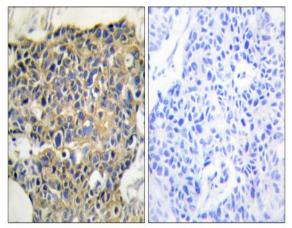
Western Blot analysis of HELA cells using Phospho-EGFR (Y1016) Polyclonal Antibody diluted at 1:1000



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). Highpressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.



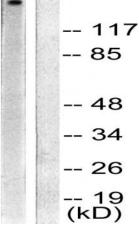
Immunofluorescence analysis of HeLa cells, using EGFR (Phospho-Tyr1016) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using EGFR (Phospho-Tyr1016) Antibody. The picture on the right is blocked with the phospho peptide.







Western blot analysis of lysates from HUVEC cells treated with Serum 20% 30', using EGFR (Phospho-Tyr1016) Antibody. The lane on the right is blocked with the phospho peptide.