# **EGFR Polyclonal Antibody**

Catalog Number: E-AB-31291



Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Reactivity Human, Mouse, Rat

**Immunogen** Synthesized peptide derived from human EGFR around the non-phosphorylation

site of Tyr1016.

Host Rabbit
Isotype IgG

Purification Affinity purification
Conjugation Unconjugated

**Formulation** PBS with 0.02% sodium azide, 0.5% protective protein and 50% glycerol, pH7.4

## **Applications** Recommended Dilution

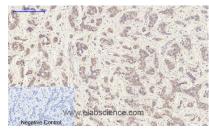
WB 1:500-1:2000
IHC 1:100-1:300
IF 1:200-1:1000
ELISA 1:5000

#### Data

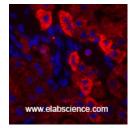


Western Blot analysis of various cells using EGFR Polyclonal Antibody at dilution of 1:2000.

Observed Mw:134kDa Calculated Mw:134kDa



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using EGFR Polyclonal Antibody at dilution of 1:200.



Immunofluorescence analysis of Mouse liver tissue using EGFR Polyclonal Antibody at dilution of 1:200.

## **Preparation & Storage**

Storage Store at -20°C. Avoid freeze / thaw cycles.

#### For Research Use Only

A Reliable Research Partner in Life Science and Medicine

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Fax: 1-832-243-6017

### **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.

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