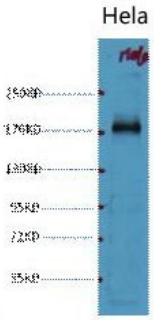
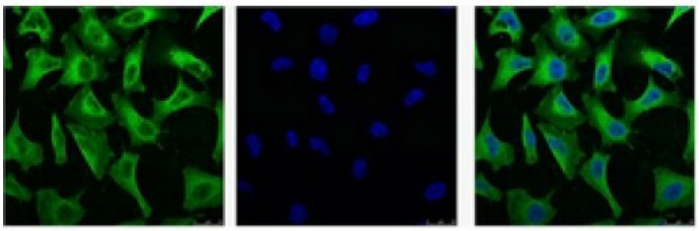
| | |
|---|---|
| **Product name:** | EGFR / HER1 |
| **Cat number:** | MAB-94443 |
| **Size:** | 100 ug |
| **Clone:** | EGFR1 |
| **Concentration:** | 1mg/ml |
| **Host:** | Ms |
| **Isotype:** | IgG1 |
| **Immunogen:** | Synthetic Peptide |
| **Reactivity:** | Hu, |
| **Applications:** | Western Blot: 1:1000 Immunofluorescence: 1:100-200 |
| **Purification:** | The antibody was affinity-purified from mouse ascites by affinitychromatography using specific immunogen |
| **Form:** | Liquid |
| **Buffer:** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Storage:** | Store at -20°C, and avoid repeat freeze-thaw cycles. |
| **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. Plays a role in enhancing learning and memory performance . Isoform 2 may act as an antagonist of EGF action.; (Microbial infection) Acts as a receptor for hepatitis C virus (HCV) in hepatocytes and facilitates its cell entry. Mediates HCV entry by promoting the formation of the CD81-CLDN1 receptor complexes that are essential for HCV entry and by enhancing membrane fusion of cells expressing HCV envelope glycoproteins. The antibody detects endogenous EGFR proteins. |




Western Blot (WB) analysis of HeLa, diluted at 1:1000.



Immunofluorescence (IF) analysis of HeLa with antibody (Left) and DAPI (Right) diluted at 1:100.