

EGFR Monoclonal Antibody(1B10)

Catalog # AP63298

Product Information

ApplicationWB, IFPrimary AccessionP00533ReactivityHumanHostMouseClonalityMonoclonal

Additional Information

Other Names EGFR; ERBB; ERBB1; HER1; Epidermal growth factor receptor; Proto-oncogene

c-ErbB-1; Receptor tyrosine-protein kinase erbB-1

Dilution WB~~WB: 1:1000 IF: 1:100-200 IF~~WB: 1:1000 IF: 1:100-200

Format PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50%

Glycerol.

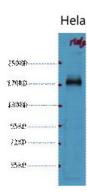
Storage Conditions -20°C

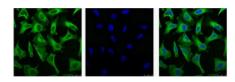
Protein Information

Background

Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses (PubMed:2790960, PubMed:10805725, PubMed:27153536). Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF (PubMed:2790960, PubMed:7679104, PubMed:8144591, PubMed:9419975, PubMed:15611079, PubMed:12297049, PubMed:27153536, PubMed:20837704). 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 (PubMed:27153536). May also activate the NF-kappa-B signaling cascade (PubMed:11116146). 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 (PubMed:11602604). Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin (PubMed:11483589). Plays a role in enhancing learning and memory performance (By similarity).

Images





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

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