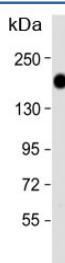


Epidermal growth factor receptor Antibody (F50599)

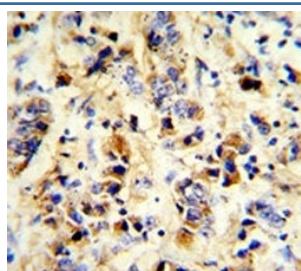
| Catalog No. | Formulation | Size |
|---------------|--|---------|
| F50599-0.4ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.4 ml |
| F50599-0.08ML | In 1X PBS, pH 7.4, with 0.09% sodium azide | 0.08 ml |

[Bulk quote request](#)

| | |
|--------------------|--|
| Availability | 1-3 business days |
| Species Reactivity | Human |
| Format | Purified |
| Host | Rabbit |
| Clonality | Polyclonal (rabbit origin) |
| Isotype | Rabbit Ig |
| Purity | Purified |
| UniProt | P00533 |
| Localization | Cytoplasmic, membranous |
| Applications | Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100 |
| Limitations | This Epidermal growth factor receptor antibody is available for research use only. |



Western blot analysis of Epidermal growth factor receptor antibody and HeLa lysate. Expected molecular weight: ~134/170 kDa (unmodified/glycosylated).



IHC analysis of FFPE human breast carcinoma stained with Epidermal growth factor receptor antibody

Description

EGFR is a 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. [UniProt]

Application Notes

Titration of the Epidermal growth factor receptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This EGFR antibody was produced from rabbits immunized with EGFR his fusion protein.

Storage

Aliquot the Epidermal growth factor receptor antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.