Recombinant Protein Technical Manual

Recombinant Human EGFR/ErbB1 Protein (aa 25-645, Fc Tag)(Active)

RPES3165

Product Data:

Product SKU: RPES3165

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P00533

Protein Information:

Molecular Mass:	95.7 kDa
AP Molecular Mass:	130 kDa
Tag:	C-Fc
Bio-activity:	Immobilized Human EGF(Cat: PKSH033687) at 10µg/ml(100 µl/well) can bind Human EGFR-Fc.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	Functional ELISA
Synonyms:	Epidermal growth factor receptor; EGFR; Proto-oncogene c-ErbB; Receptortyrosine-protein kinase erbB; EGFR

Immunogen Information:

Sequence: Leu25-Ser645

Background:

EGFR 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. 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.