

**Product Data:****Product SKU:** RPES2842**Size:** 50µg**Species:** Mouse**Expression host:** HEK293 Cells**Uniprot:** Q01279**Protein Information:****Molecular Mass:** 71 kDa**AP Molecular Mass:** 100 kDa**Tag:** C-His**Bio-activity:** 1. Measured by its binding ability in a functional ELISA.2. Immobilized mouse EGFR-his at 10 µg/mL (100 µl/well) can bind human EGF-Fc , The EC50 of human EGF-Fc is 60-90 ng/mL.3. Immobilized mouse EGFR-his at 10 µg/mL (100 µl/well) can bind mouse EGF-F**Purity:** > 95 % as determined by SDS-PAGE**Endotoxin:** < 1.0 EU per µg of the protein 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°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.**Formulation:** Lyophilized from sterile PBS, pH 7.4**Reconstitution:** Please refer to the printed manual for detailed information.**Application:** Functional ELISA**Synonyms:** 9030024J15Rik;AI552599;ErbB;Errb1;Errp;wa-2;wa2;Wa5

## Immunogen Information:

**Sequence:** Met 1-Ser 647

## Background:

As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF- $\alpha$ , betacellulin, etc. EGFR protein plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation. Binding of a ligand induces EGFR protein homo- or heterodimerization, the subsequent tyrosine autophosphorylation and initiates various down stream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently.