

# Recombinant Protein Technical Manual

# Recombinant Human EGFR/ErbB1 Protein (aa 668210, His&GST Tag)(Active) RPES2136

#### **Product Data:**

**Product SKU:** RPES2136 **Size:** 20μg

Species: Human Expression host: Baculovirus-Insect cells

**Uniprot:** NP 005219

#### **Protein Information:**

Molecular Mass: 89.1 kDa

**AP Molecular Mass:** 

Tag: N-His-GST

**Bio-activity:** The specific activity was determined to be 105 nmol/min/mg using Poly(Glu:Tyr)

4:1 as substrate.

**Purity:** > 85 % as determined by reducing SDS-PAGE.

**Endotoxin:**  $< 1.0 \text{ EU per } \mu \text{g}$  of the protein as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue

ice/gel packs. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as sterile 20 mM Tris, 500 mM NaCl, 10 % glycerol, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** 

**Synonyms:** ERBB;ERBB1;HER1;mENA;NISBD2;PIG61

## **Immunogen Information:**

Sequence: Met 668-Ala 1210

### **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.