

## 37-1033: Human EGFR / HER1 / ErbB1 Recombinant Protein (Fc Tag)

**Reactivity :** Human

**Alternative Name :** ERBB Protein, ERBB1 Protein, HER1 Protein, mENA Protein, NISBD2 Protein, PIG61 Protein,

### Description

#### Source : HEK293 Cells

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. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

### Product Info

**Amount :** 50  $\mu$ g / 100  $\mu$ g

**Purification :** > 97 % as determined by SDS-PAGE

**Content :** Formulation Lyophilized from sterile PBS, pH 7.4  
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Amino Acid :** Met1-Gly645

### Application Note

Measured by its binding ability in a functional ELISA. Immobilized recombinant human EGF at 10  $\mu$ g/ml (100  $\mu$ L/well) can bind human EGFR with a linear range of 0.64-400 ng/ml.

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

Other pack size also available.

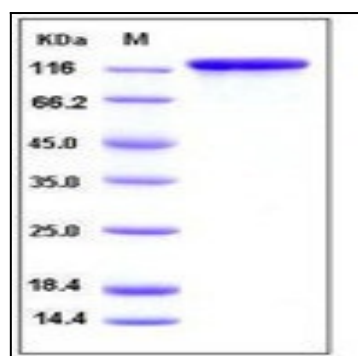


Fig 1: Human EGFR / HER1 / ErbB1 Recombinant Protein (Fc Tag)

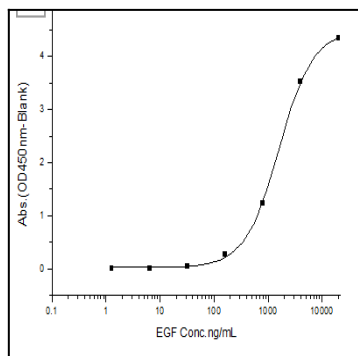


Fig 2: Human EGFR / HER1 / ErbB1 Recombinant Protein (Fc Tag) measured by its binding ability in a functional ELISA.