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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 µg / 100 µg
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 µg/ml (100 µL/well) can bind human EGFR with a linear range of 0.64-400 ng/ml.
Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method.
Other pack size also available.

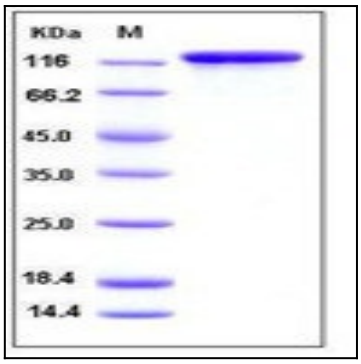

Fig 1: Human EGFR / HER1 / ErbB1 Recombinant Protein (Fc Tag)

For Research Use Only. Not for use in diagnostic/therapeutics procedures.

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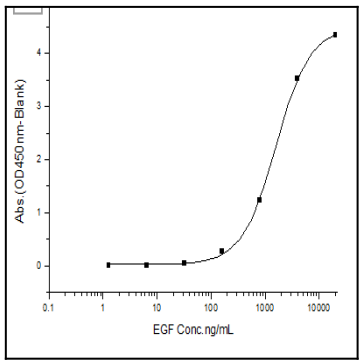

Fig 2: Human EGFR / HER1 / ErbB1 Recombinant Protein (Fc Tag) measured by its binding ability in a functional ELISA.

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