

PRODUCT INFORMATION

Target	EGFR
Synonyms	EGFR;ERBB;ERBB1;HER1;PIG61;mENA
Description	Recombinant human EGFR Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P00533
Expression Host	HEK293
Tag	C-6×His Tag
Molecular Characterization	EGFR(Leu25-Ser645) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 69.4 kDa after removal of the signal peptide. The apparent molecular mass of EGFR-His is approximately 100-130 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage & Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	The protein encoded by this gene 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. Mutations in this gene are associated with lung cancer.
Usage	Research use only



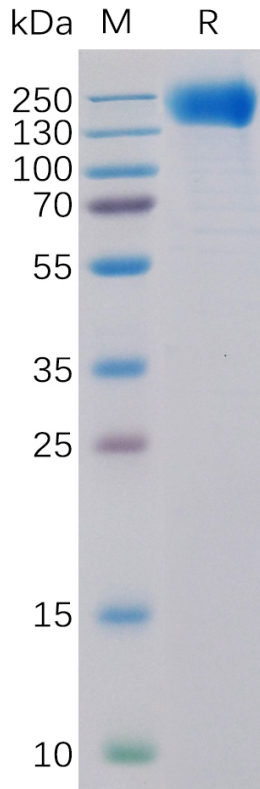


Figure 1. Human EGFR Protein, His Tag on SDS-PAGE under reducing condition.

Human EGFR, His Tagged protein ELISA

0.2 µg of Human EGFR, His tagged protein per well

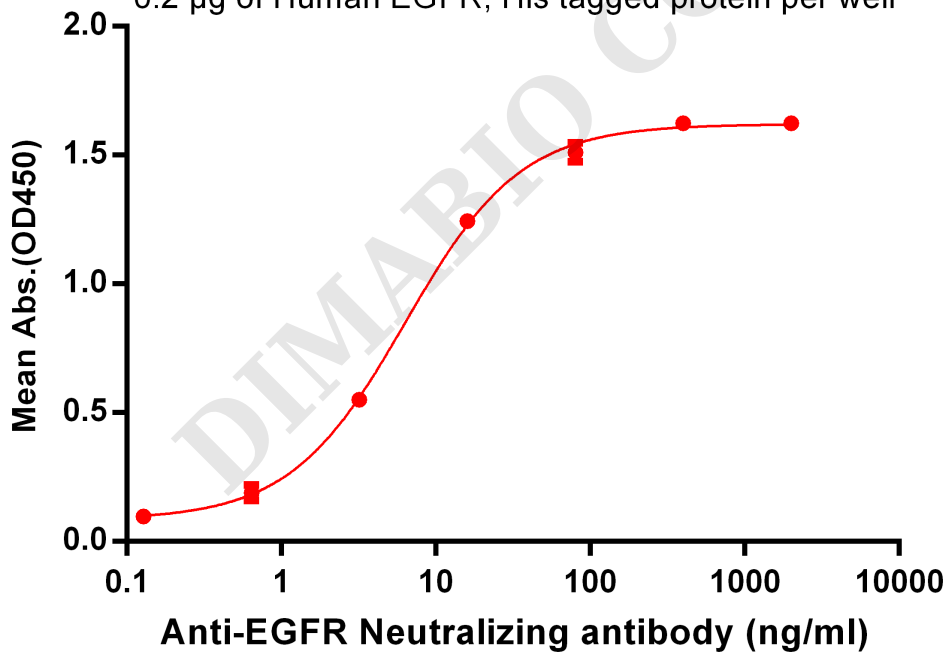


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human EGFR, His tagged protein (PME100099) can bind Anti-EGFR Antibody BME100034 in a linear range of 0.64-80.0 ng/ml.



Human EGFR, His Tagged protein ELISA

0.2 μg of Human EGFR, His tagged protein per well

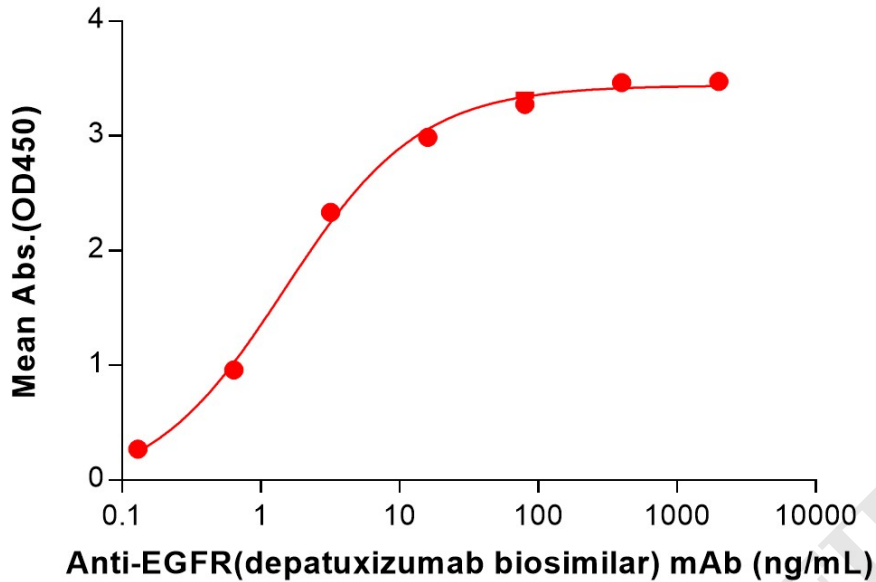


Figure 3. ELISA plate pre-coated by 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) Human EGFR Protein, His Tag (PME100099) can bind Anti-EGFR(depatuxizumab biosimilar) mAb (BME100252) in a linear range of 0.13–16 ng/mL.

Human EGFR, His Tagged protein ELISA

0.2 μg of Human EGFR, His tagged protein per well

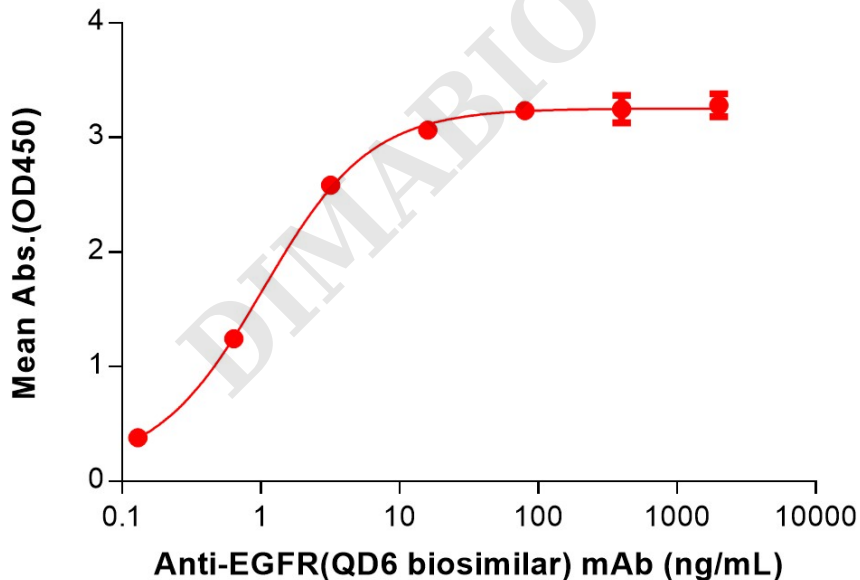


Figure 4. ELISA plate pre-coated by 2 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) Human EGFR Protein, His Tag (PME100099) can bind Anti-EGFR(QD6 biosimilar) mAb (BME100250) in a linear range of 0.13–16 ng/mL.

