

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM129
<b>Target</b>	EGFR
<b>Synonyms</b>	EGFR;ERBB;ERBB1;HER1;PIG61;mENA
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-EGFR antibody(DM129); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P00533
<b>IgG type</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA; Flow Cyt
<b>Recommended Dilutions</b>	ELISA 1:5000-10000; Flow Cyt 1:100
<b>Purification</b>	Purified from cell culture supernatant by affinity chromatography
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage &amp; Shipping</b>	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.
<b>Background</b>	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.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



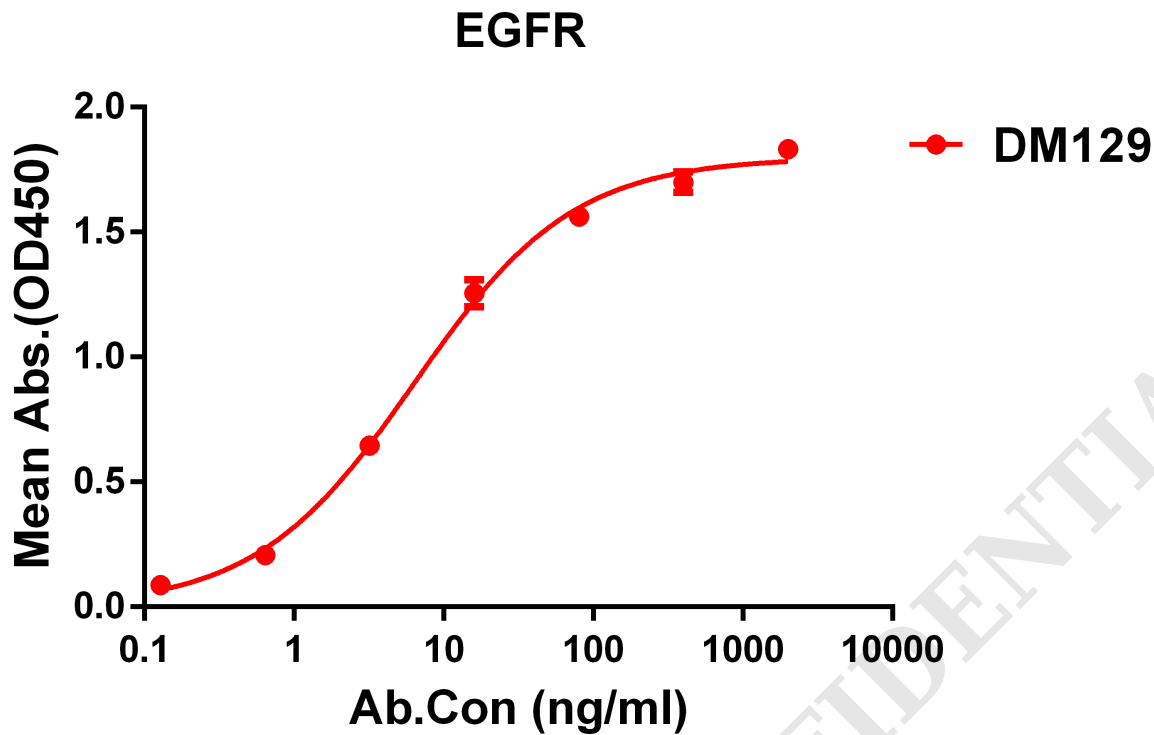


Figure 1. ELISA plate pre-coated by 1  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) Human EGFR protein, His tagged protein PME100099 can bind Rabbit anti-EGFR monoclonal antibody (clone: DM129) in a linear range of 0. 1-18 ng/ml.

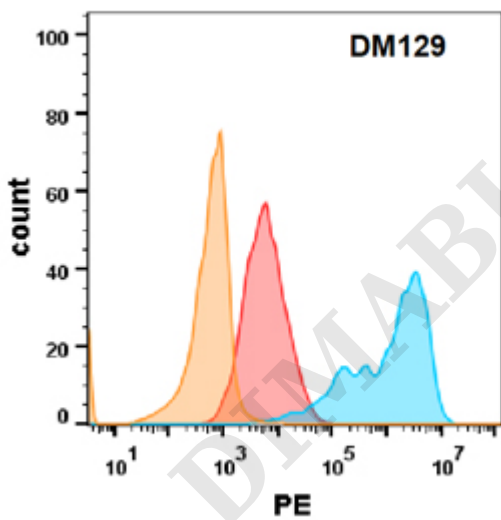


Figure 2. EGFR protein is highly expressed on the surface of Expi293 cell membrane. Flow cytometry analysis with Anti-EGFR (DM129) on Expi293 cells transfected with human EGFR (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram), and Isotype antibody on Expi293 transfected with irrelevant protein (Orange histogram)



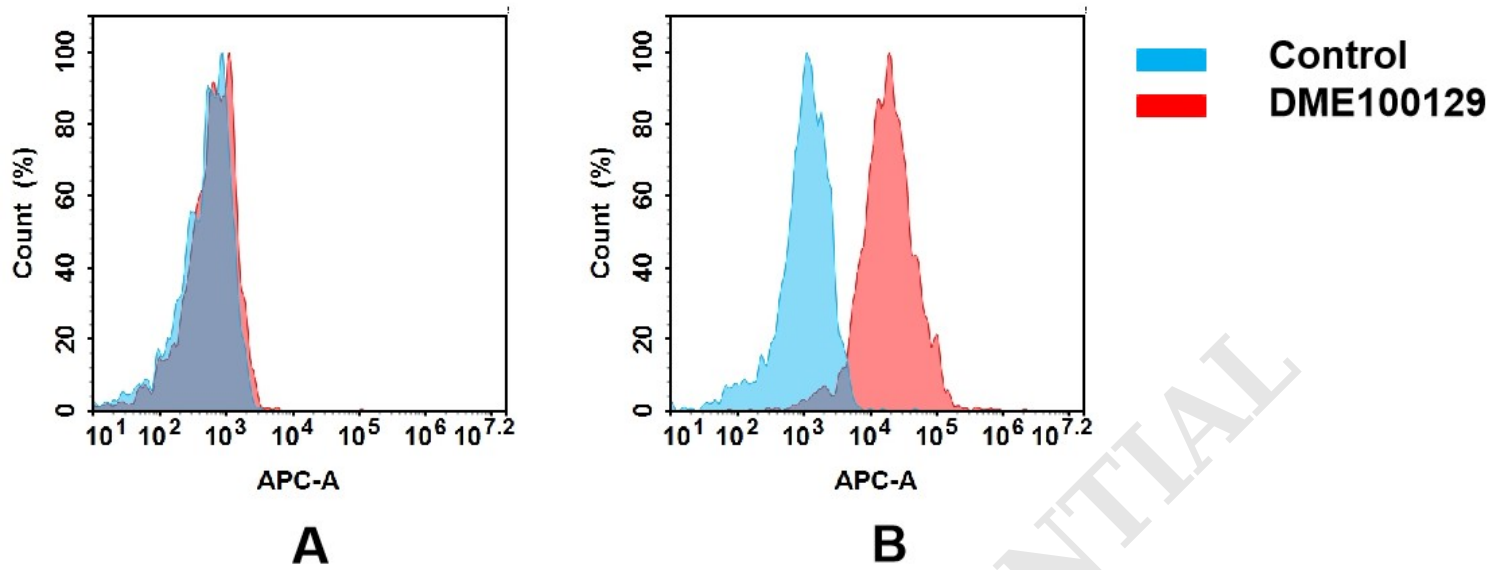


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human EGFR mAb(DME100129).

(A) DME100129 does not bind to CHO-S cells that do not express EGFR.

(B) A clear peak shift of DME100129 was seen compared to the control when incubated with EGFR-expressing SNU-5 cells, indicating strong binding of DME100129 to EGFR. Antibodies were incubated at 5  $\mu$ g/mL.

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