

PRODUCT INFORMATION

Common Name	4D5-8,4D5V8,Herceptin,rhuMabHER2, Unconjugated mAb
Synonyms	ERBB2;CD340;HER-2/neu;HER2;MLN19;NEU;NGL;TKR1
Conjugate	Unconjugated
Applications	ELISA; Flow Cyt
Endotoxin	Less than 1.0 EU/μg by the LAL method. For <1 EU/mg requirements, please contact us for customization.
Recommended Dilutions	ELISA 1:5000-10000; Flow Cyt 1:100
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.
Host Species	Humanized
IgG type	Human IgG1 – kappa
Reactivity	Human
Target	Her2
Uniprot ID	P04626
Description	Anti-Her2 (trastuzumab biosimilar)mAb
Delivery	In Stock
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.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Background	Research grade biosimilar. Not for use in therapeutic or diagnostic procedures for humans or animals. Our unconjugated biosimilar monoclonal antibodies (mAbs) are based on the sequences outlined in relevant patents or scientific publications. These antibodies are in their native, unconjugated form, meaning they do not contain any payload or therapeutic agent attached. They are designed for use in research and development, and their performance has been tested as standalone molecules through comprehensive QC tests.
Usage	Research use only



Anti-Her2 (trastuzumab biosimilar) mAb ELISA

0.1 μg of Human Her2, His tagged protein per well

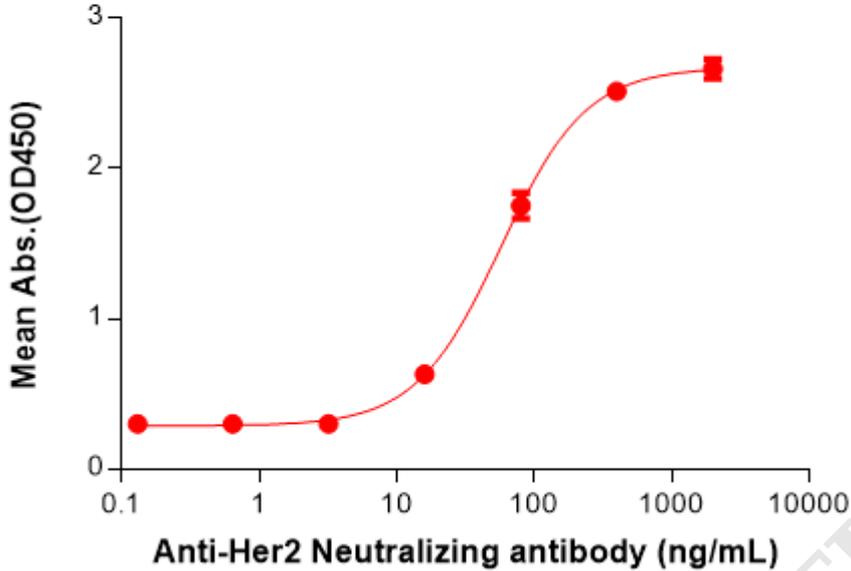


Figure 1. ELISA plate pre-coated by 1 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) Human Her2, His tagged protein (PME100095) can bind Anti-Her2 (trastuzumab biosimilar) mAb (BME100048) in a linear range of 3.2-400 ng/ml.

Anti-Her2 (trastuzumab biosimilar)mAb ELISA

0.1 μg of Human Her2, hFc tagged protein per well

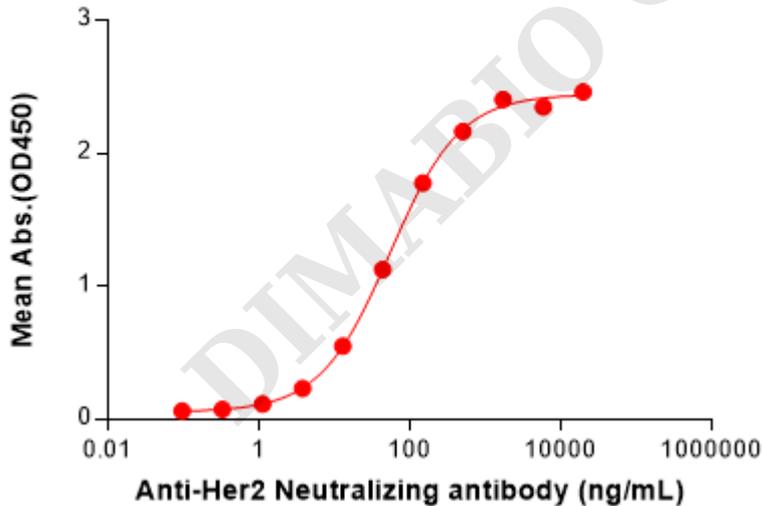


Figure 2. ELISA plate pre-coated by 1 $\mu\text{g}/\text{mL}$ (100 $\mu\text{L}/\text{well}$) Human Her2 Protein, hFc Tag (PME100665) can bind Anti-Her2 (trastuzumab biosimilar) mAb (BME100048) in a linear range of 3.81-1730.10 ng/mL. In order to specifically detect BME100048, mouse anti-human Fab-specific antibody was used as detection antibody.



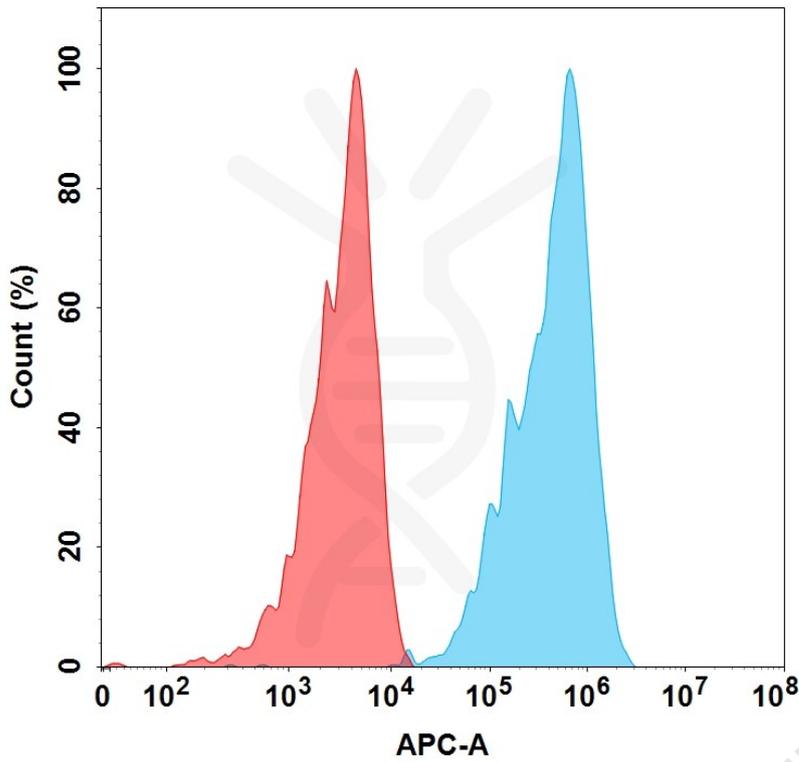


Figure 3. Flow cytometry analysis with 15 µg/mL Anti-Her2 (trastuzumab biosimilar) mAb (BME100048) on HEK293 cells transfected with Human Her2 protein (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

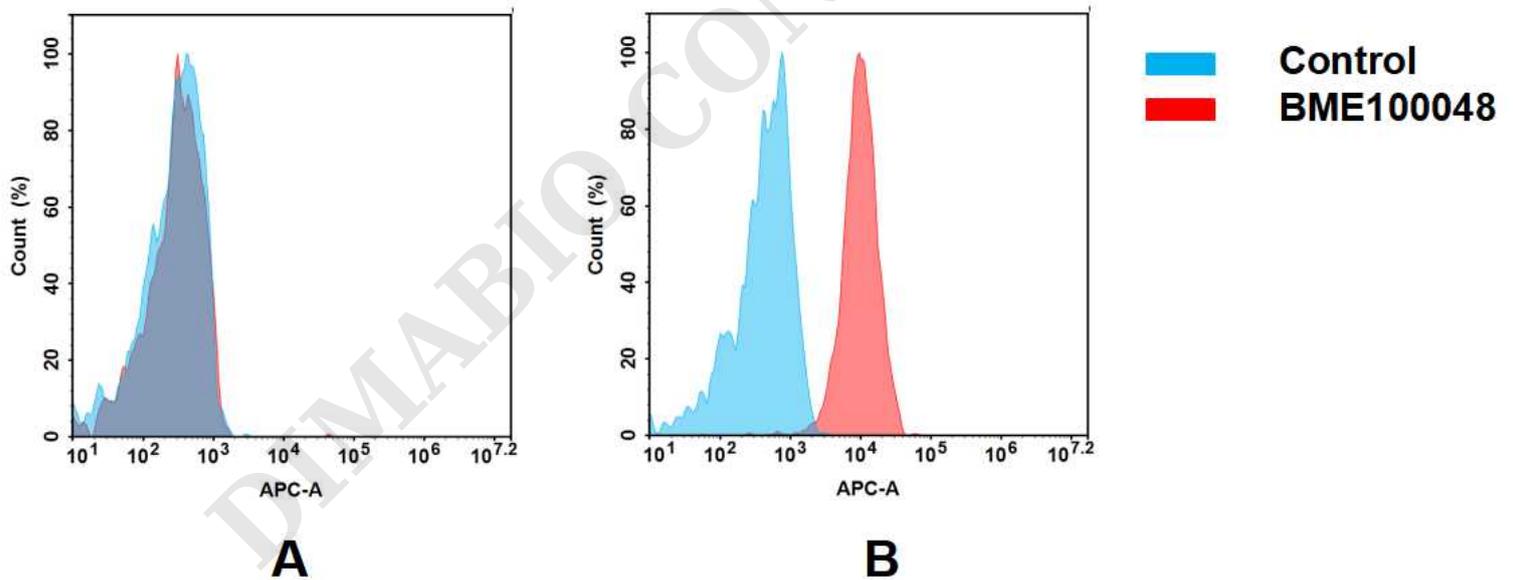


Figure 4. Flow cytometry analysis of antigen binding of anti-human Her2 mAb(BME100048).
 (A) BME100048 does not bind to Jurkat cells that do not express Her2.
 (B) A clear peak shift of BME100048 was seen compared to the control when incubated with Her2-expressing MCF-7 cells, indicating strong binding of BME100048 to Her2. Antibodies were incubated at 2 µg/mL.

