

PRODUCT INFORMATION

Clone ID	DMC369
Target	Her2
Synonyms	ERBB2;CD340;HER-2:neu;HER2;MLN19;NEU;NGL;TKR1
Host Species	Rabbit
Description	Anti-HER2 antibody(DMC369); IgG1 Chimeric mAb
Delivery	In Stock
Uniprot ID	P04626
IgG type	Rabbit/Human Fc chimeric IgG1
Clonality	Monoclonal
Reactivity	Human
Applications	Flow Cyt
Recommended Dilutions	Flow Cyt 1:100
Purification	Purified from cell culture supernatant by affinity chromatography
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	This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However; it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer; stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways; such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported; with the most common allele; Ile654:Ile655; shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers; including breast and ovarian tumors. Alternative splicing results in several additional transcript variants; some encoding different isoforms and others that have not been fully characterized.
Usage	Research use only



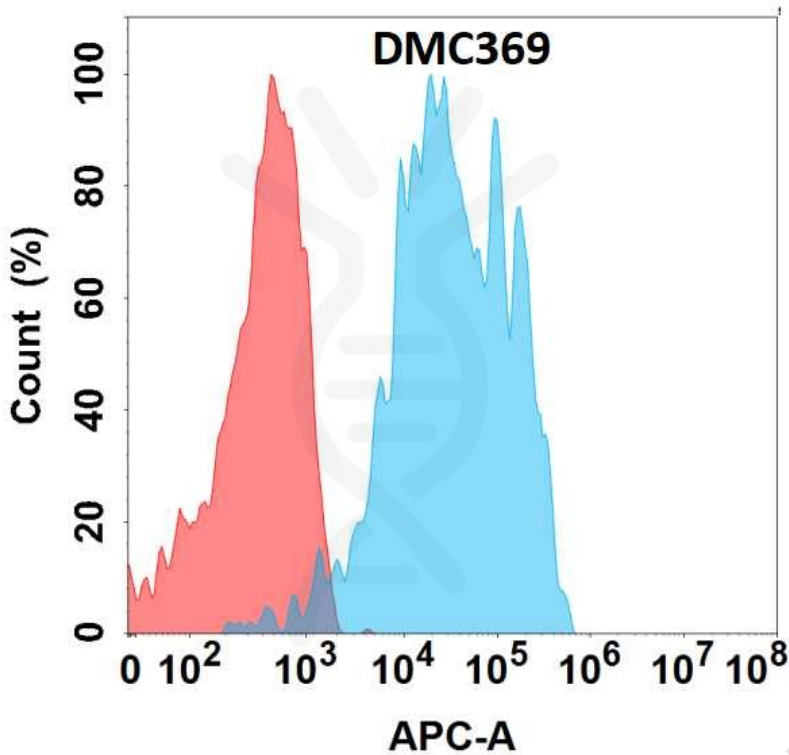


Figure 1. Flow cytometry analysis with Anti-HER2 (DMC369) on Expi293 cells transfected with human HER2 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

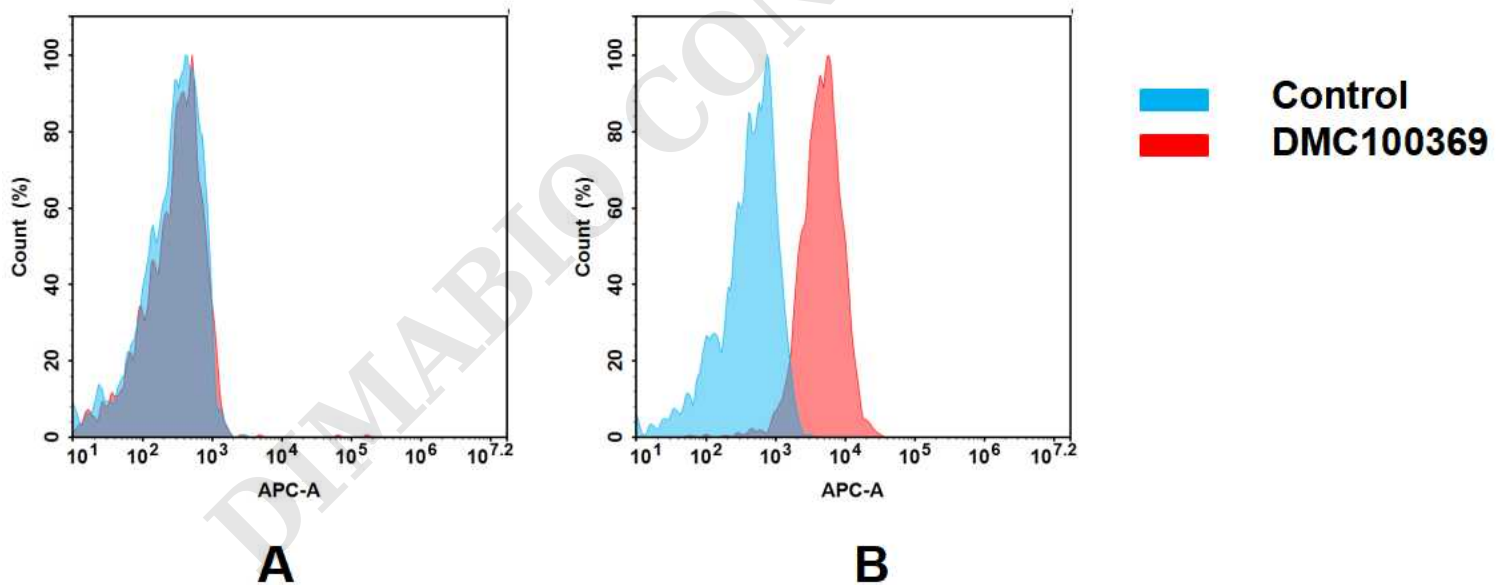


Figure 2. Flow cytometry analysis of antigen binding of anti-human her2 mAb(DMC100369).

(A) DMC100369 does not bind to Jurkat cells that do not express her2.

(B) A clear peak shift of DMC100369 was seen compared to the control when incubated with her2-expressing MCF-7 cells, indicating strong binding of DMC100369 to her2. Antibodies were incubated at 2 $\mu\text{g/mL}$.

