PRODUCT INFORMATION

Clone ID	DMC446
Target	CD117
Synonyms	C-Kit; CD117; MASTC; PBT; SCFR; KIT
Host Species	Rabbit
Description	Anti-CD117 antibody(DMC446); IgG1 Chimeric mAb
Delivery	In Stock
Uniprot ID	P10721
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 receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like domains; a transmembrane region; and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand; stem cell factor (SCF); this protein phosphorylates multiple intracellular proteins that play a role in in the proliferation; differentiation; migration and apoptosis of many cell types and thereby plays an important role in hematopoiesis; stem cell maintenance; gametogenesis; melanogenesis; and in mast cell development; migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors; mast cell disease; acute myelogenous leukemia; and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.
Usage	Research use only
Conjugate	Unconjugated

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DIMA Disclaimer	All DIMA recombinant antibodies are genuinely generated by DIMA Biotech. They are all under patent application. Any protein sequencing or reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to ensure no IP infringement.

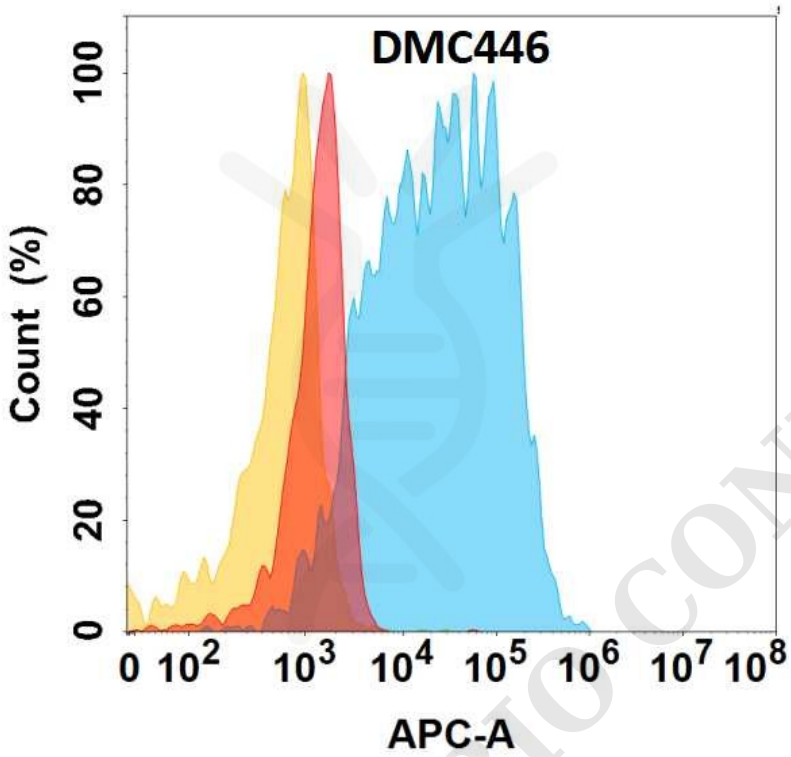

Figure 1. Flow cytometry analysis with Anti-CD117 (DMC446) on HEK293 cells transfected with human CD117 (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram), and Isotype antibody on HEK293 transfected with irrelevant protein (Orange histogram).

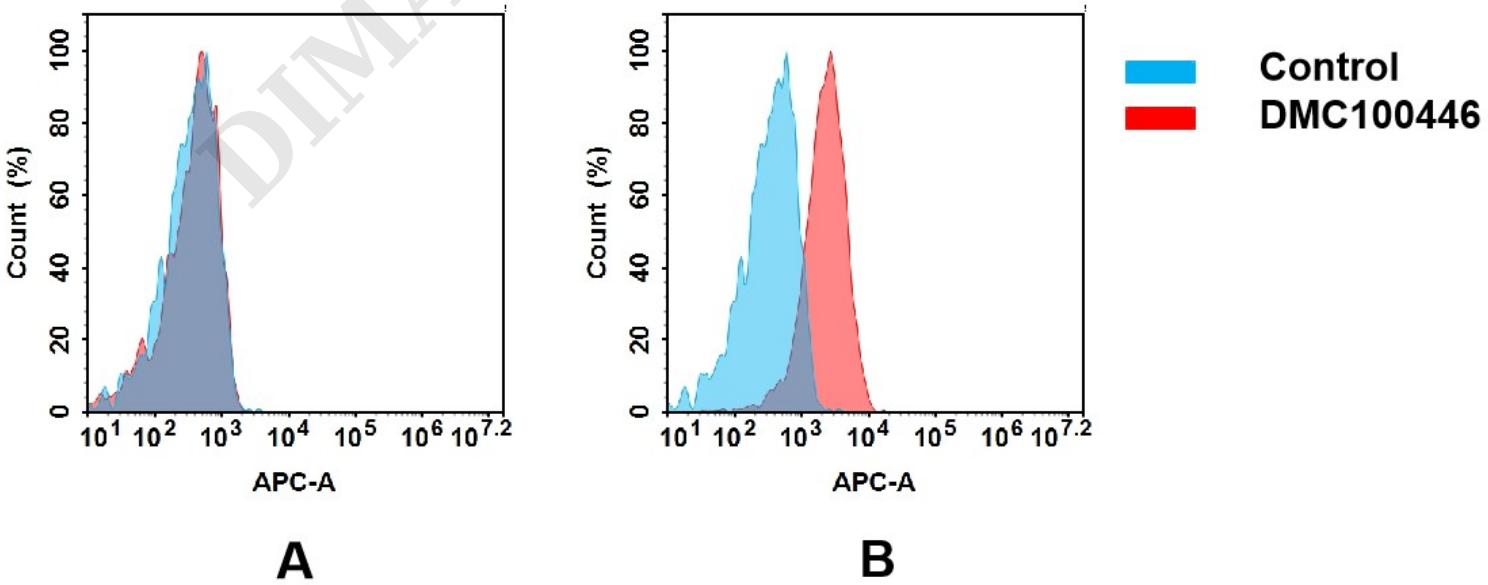

Figure 2. Flow cytometry analysis of antigen binding of anti-human CD117 mAb(DMC100446).

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(A) DMC100446 does not bind to A431 cells that do not express CD117.
(B) A clear peak shift of DMC100446 was seen compared to the control when incubated with CD117-expressing TT cells, indicating strong binding of DMC100446 to CD117. Antibodies were incubated at 5 μg/mL.

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