PRODUCT INFORMATION

Clone ID	DM193
Target	CD45
Synonyms	B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200
Host Species	Rabbit
Description	Anti-CD45 antibody(DM193); Rabbit mAb
Delivery	In Stock
Uniprot ID	P08575
IgG type	Rabbit IgG
Clonality	Monoclonal
Reactivity	Human
Applications	ELISA; Flow Cyt
Recommended Dilutions	ELISA 1:5000-10000; 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	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth; differentiation; mitosis; and oncogenic transformation. This PTP contains an extracellular domain; a single transmembrane segment and two tandem intracytoplasmic catalytic domains; and thus is classified as a receptor type PTP. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes; or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases; and thus functions as a regulator of cytokine receptor signaling. Alternatively spliced transcripts variants of this gene; which encode distinct isoforms; have been reported.
Usage	Research use only
Conjugate	Unconjugated
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.

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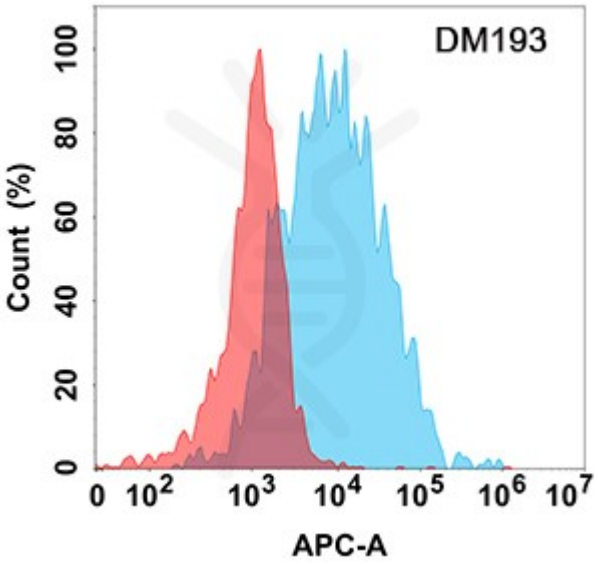

Figure 1. Flow cytometry analysis with Anti-CD45 (DM193) on Expi293 cells transfected with human CD45 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

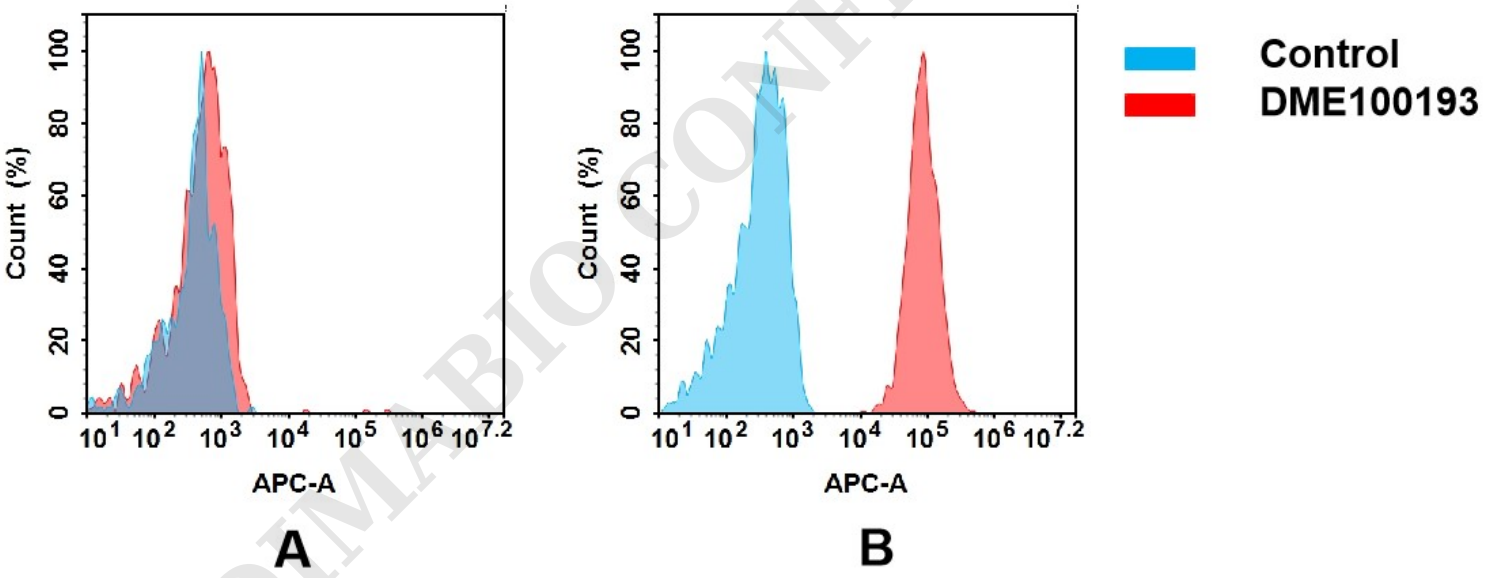

Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193).
(A) DME100193 does not bind to CHO-S cells that do not express CD45.
(B) A clear peak shift of DME100193 was seen compared to the control when incubated with CD45-expressing Jurkat cells, indicating strong binding of DME100193 to CD45. Antibodies were incubated at 5 μg/mL.

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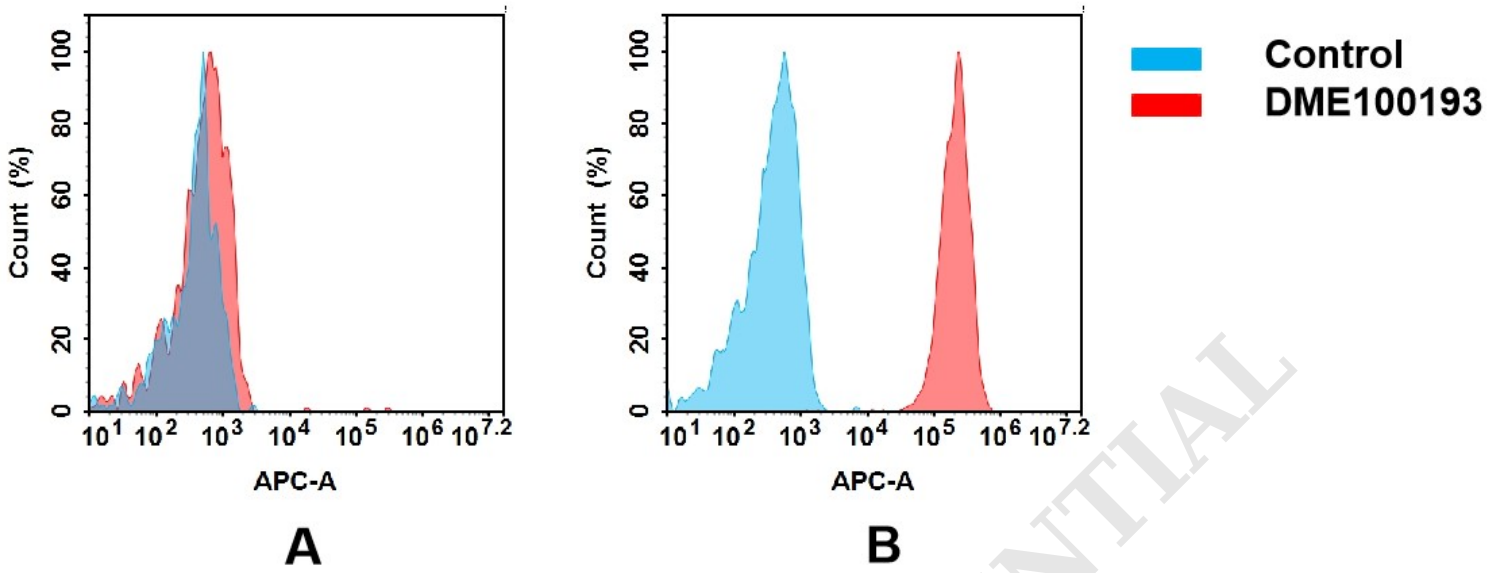

Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193).
(A) DME100193 does not bind to CHO-S cells that do not express CD45.
(B) A clear peak shift of DME100193 was seen compared to the control when incubated with CD45-expressing THP-1 cells, indicating strong binding of DME100193 to CD45. Antibodies were incubated at 5 μg/mL.

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