

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM193
<b>Target</b>	CD45
<b>Synonyms</b>	B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-CD45 antibody(DM193); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P08575
<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. 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>Storage &amp; Shipping</b>	
<b>Background</b>	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.
<b>Usage</b>	Research use only



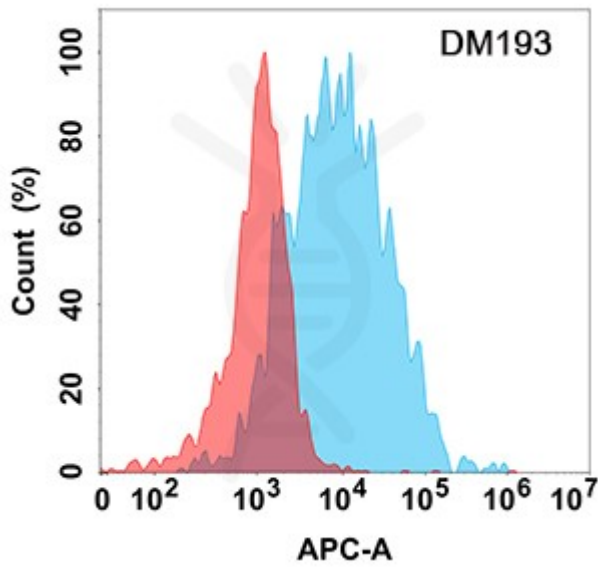


Figure 1. Flow cytometry analysis with Anti-CD45 (DM193) on Expi293 cells transfected with human CD45 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

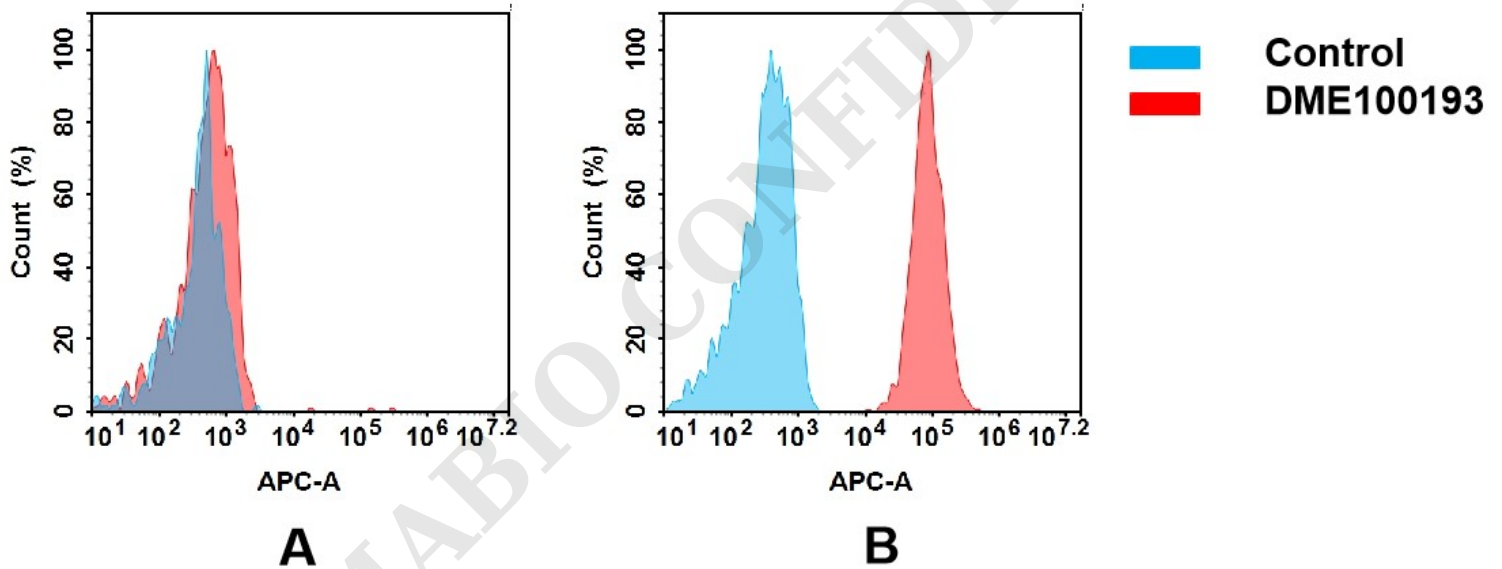


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193).

(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.



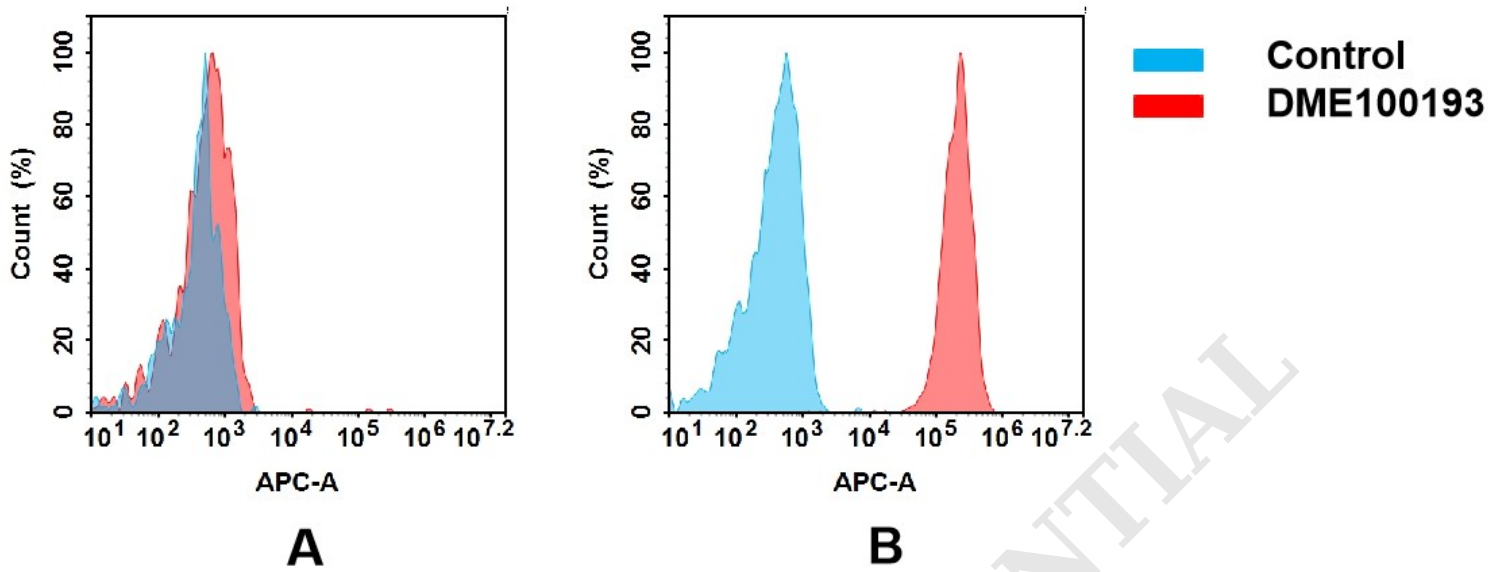


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193).

(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  $\mu$ g/mL.

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