

PRODUCT INFORMATION

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| 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 |



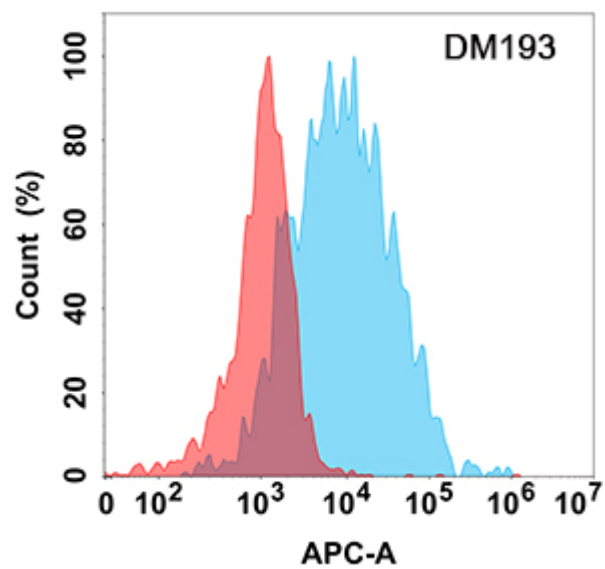


Figure 1. Flow cytometry analysis with Anti-CD45 (DM193) on Expi293 cells transfected with human CD45 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

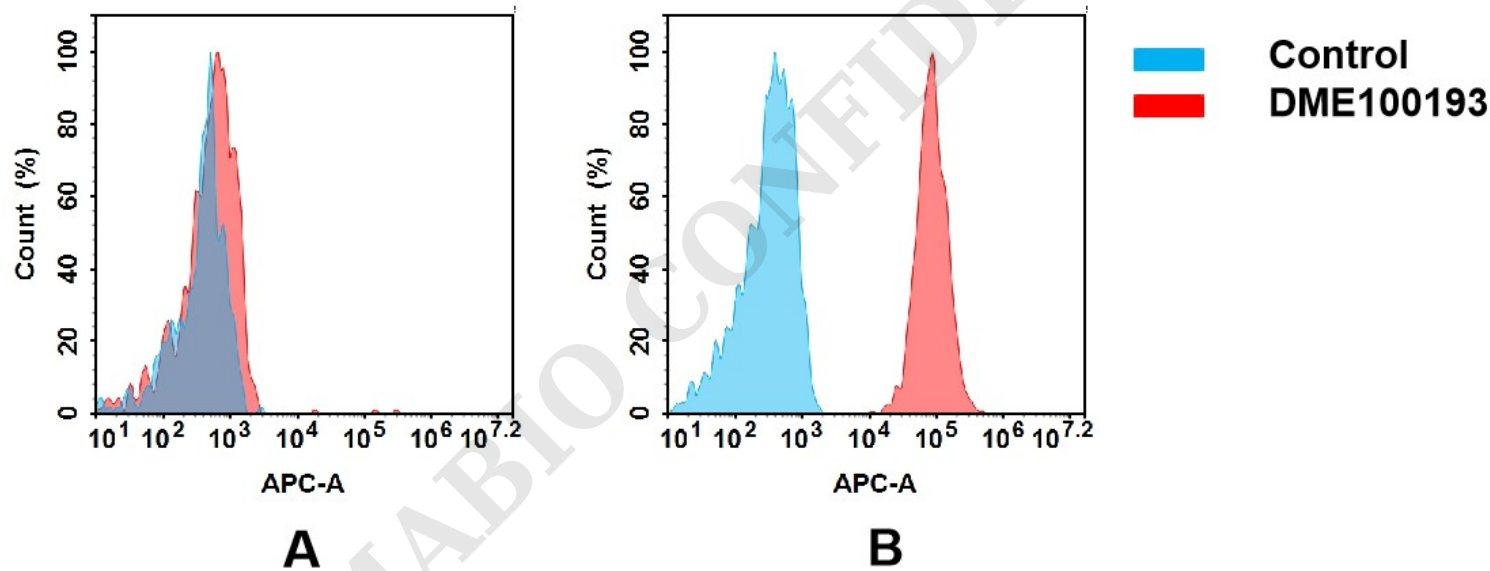


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193).
(A) DME100193 does not bind to CHO-S cells that do not express CD45.
(B) A clear peak shift of DME100193 was seen compared to the control when incubated with CD45-expressing Jurkat cells, indicating strong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



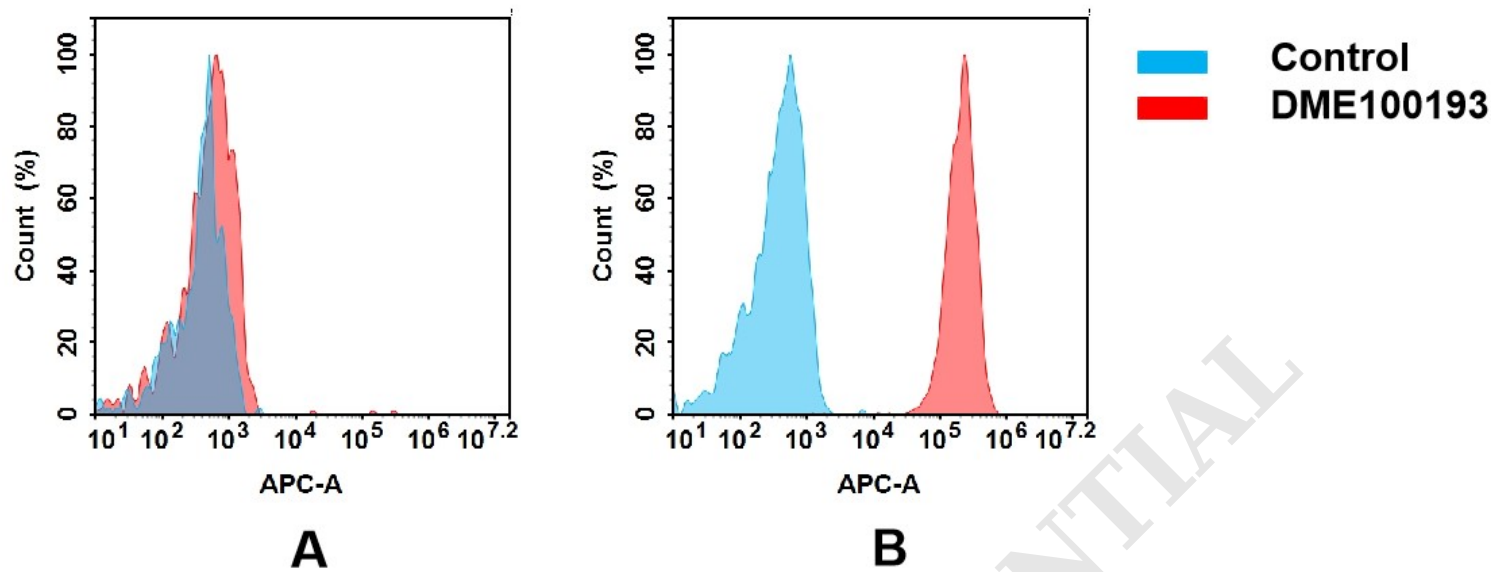


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193).
(A) DME100193 does not bind to CHO-S cells that do not express CD45.
(B) A clear peak shift of DME100193 was seen compared to the control when incubated with CD45-expressing THP-1 cells, indicating strong binding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

