

## **PRODUCT INFORMATION**

Clone ID DM193 **CD45 Target** 

**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

ELISA 1:5000-10000; Flow Cyt 1:100 **Dilutions** 

Purified from cell culture supernatant by affinity **Purification** 

chromatography

Formulation & Reconstitution

**Background** 

Storage & Shipping

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.

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

> 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

> > Email: info@dimabio.com

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actively scrutinizing all patent application to

ensure no IP infringement.

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**DIMA Disclaimer** 



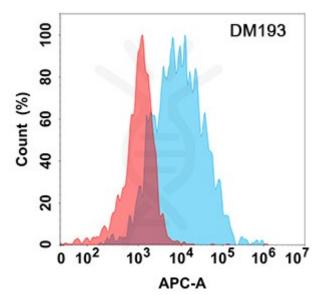


Figure 1. Flow cytometry analysis with Anti-CD45 (DM193) on HEK293 cells transfected with human CD45 (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

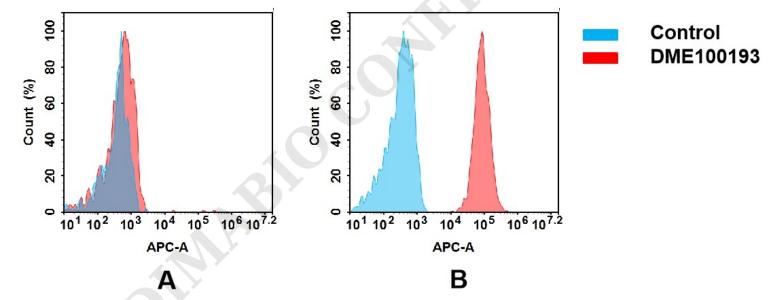


Figure 2. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193). (A) DME100193 does not bind to CHO-S cells that do not express CD45. (B) A clear peak shift of DME100193 was seen compared to the control when incubated with CD45-expressing Jurkat cells, indicating strong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

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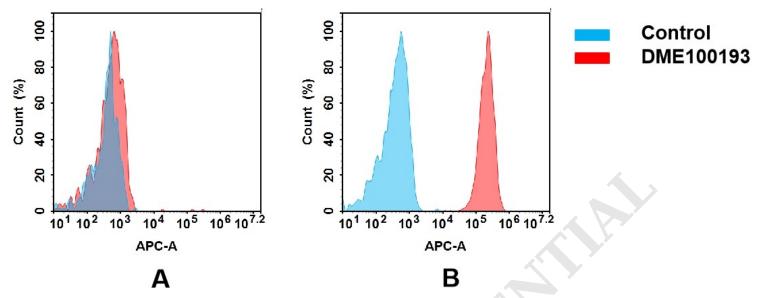


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human CD45 mAb(DME100193). (A) DME100193 does not bind to CHO-S cells that do not express CD45. (B) A clear peak shift of DME100193 was seen compared to the control when incubated with CD45-expressing THP-1 cells, indicating strong binding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

