

PRODUCT INFORMATION

Clone ID 7E1 **CD45 Target**

Synonyms B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200

Host Species Rabbit

Description Anti-CD45 antibody(7E1), IgG1 Chimeric mAb

Delivery In Stock **Uniprot ID** P08575

IgG type Rabbit/Human Fc chimeric IgG1

Clonality Monoclonal Reactivity Human **Applications** IHC

Recommended **Dilutions**

IHC 1:100

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

> > Email: info@dimabio.com

Website: www.dimabio.com

DIMA Disclaimer reverse engineering attempt is prohibited. We are actively scrutinizing all patent application to

ensure no IP infringement.

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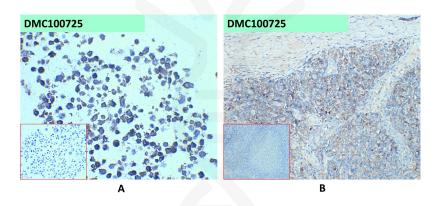


Figure 1. A. DMC100725 at $10\mu g/ml$ staining CD45 in Hut78 cells by IHC (SKU# DMC100725);B. DMC100725 at $10\mu g/ml$ staining CD45 in human tonsil tissue by IHC (SKU# DMC100725)

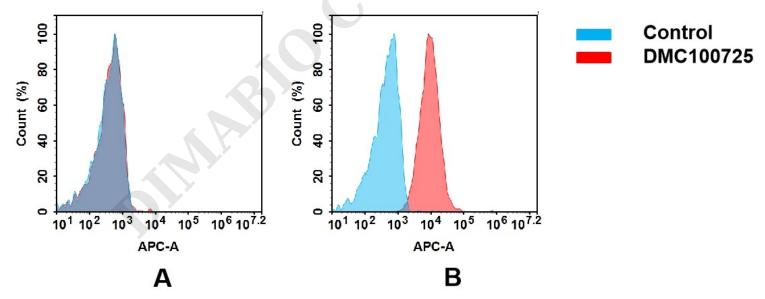


Figure 2. Flow cytometry analysis of antigen binding of anti-human CD45 mAb(DMC100725). (A) DMC100725 does not bind to CHO-S cells that do not express CD45. (B) A clear peak shift of DMC100725 was seen compared to the control when incubated with CD45-expressing THP-1 cells, indicating strong binding of DMC100725 to CD45. Antibodies were incubated at 5 μ g/mL.

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