

PRODUCT INFORMATION

Clone ID	7E1
Target	CD45
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
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



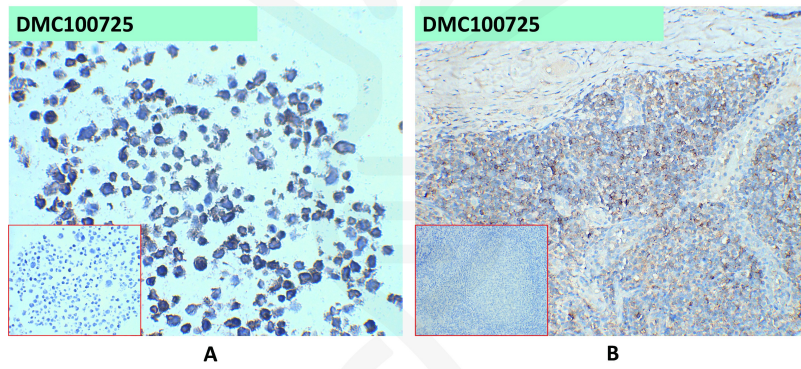


Figure 1. A. DMC100725 at 10µg/ml staining CD45 in Hut78 cells by IHC (SKU# DMC100725);B. DMC100725 at 10µg/ml staining CD45 in human tonsil tissue by IHC (SKU# DMC100725)

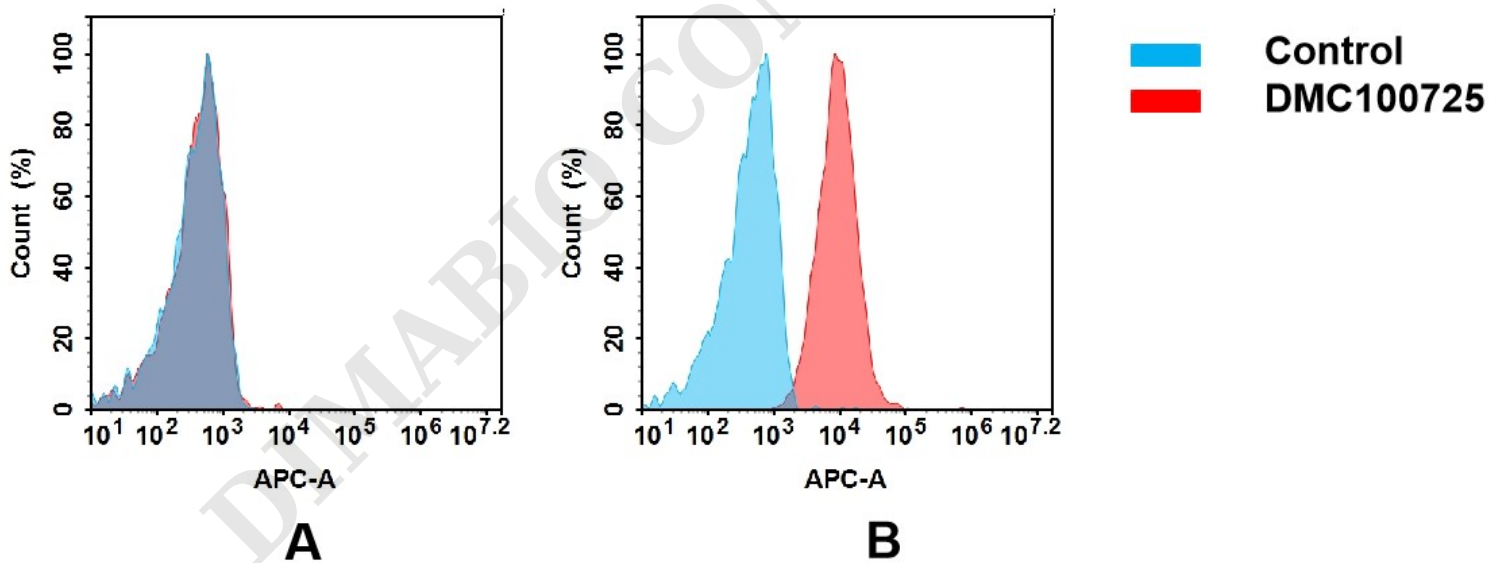


Figure 2. Flow cytometry analysis of antigen binding of anti-human CD45 mAb(DMC100725).
 (A) DMC100725 does not bind to CHO-S cells that do not express CD45.
 (B) A clear peak shift of DMC100725 was seen compared to the control when incubated with CD45-expressing THP-1 cells, indicating strong binding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

