

## 12-9619: Anti-CD45 antibody(7E1), IgG1 Chimeric mAb

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	7E1
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD45
<b>Uniprot ID :</b>	P08575
<b>Alternative Name :</b>	B220; CD45; CD45R; GP180; L-CA; LCA; LY5; T200
<b>Isotype :</b>	Rabbit/Human Fc chimeric IgG1

### Description

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.

### Product Info

<b>Amount :</b>	10µg / 100 µg
<b>Purification :</b>	Purified from cell culture supernatant by affinity chromatography
<b>Content :</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.
<b>Storage condition :</b>	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.

### Application Note

IHC 1:100

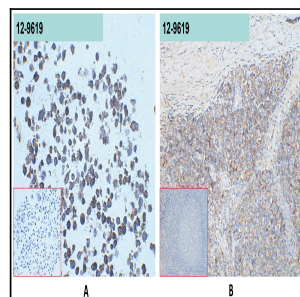
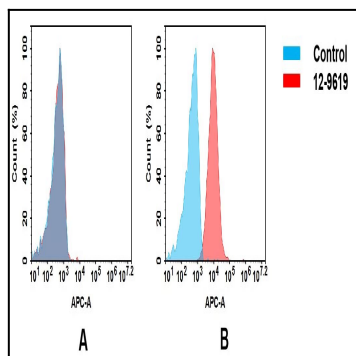


Figure 1. A. 12-9619 at 10µg/ml staining CD45 in Hut78 cells by IHC (Cat# 12-9619); B. 12-9619 at 10µg/ml staining CD45 in human tonsil tissue by IHC (Cat# 12-9619)



"Figure 2. Flow cytometry analysis of antigen binding of anti-human CD45 mAb(12-9619). (A) 12-9619 does not bind to CHO-S cells that do not express CD45. (B) A clear peak shift of 12-9619 was seen compared to the control when incubated with CD45-expressing THP-1 cells, indicating strong binding of 12-9619 to CD45. Antibodies were incubated at 5 µg/mL."