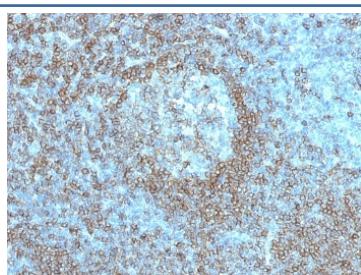


## CD45RA Antibody [clone K4B5] (V8043)

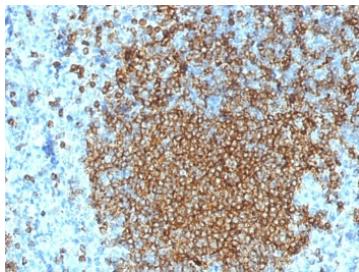
Catalog No.	Formulation	Size
V8043-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8043-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8043SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

[Bulk quote request](#)

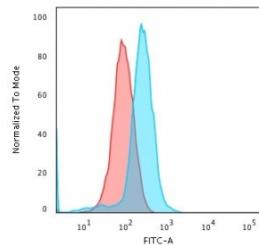
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG2a, kappa
<b>Clone Name</b>	K4B5
<b>Purity</b>	Protein G affinity chromatography
<b>UniProt</b>	P08575
<b>Localization</b>	Cell surface, cytoplasmic
<b>Applications</b>	Flow Cytometry : 1-2ug/10 <sup>6</sup> cells Immunofluorescence : 1-2ug/ml Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
<b>Limitations</b>	This CD45RA antibody is available for research use only.



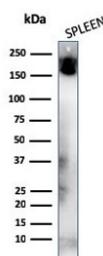
IHC staining of FFPE human tonsil with CD45RA antibody (clone K4B5). HIER: steam section in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool prior to staining.



IHC staining of FFPE human spleen with CD45RA antibody (clone K4B5). HIER: steam section in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool prior to staining.



Flow cytometry testing of human Jurkat cells with CD45RA antibody (clone K4B5);  
Red=isotype control, Blue= CD45RA antibody.



Western blot testing of human spleen lysate with CD45RA antibody (clone K4B5).  
Expected molecular weight: 147-220 kDa depending on glycosylation level.

## Description

Recognizes a protein of 205kDa-220kDa, identified as CD45RA. CD45RA is isoforms of the human leukocyte common antigen (CD45). Human CD45 contains three exons which encode peptide segments designated A, B and C, respectively. The differential splicing of the exons generates at least five isoforms, ABC, AB, BC, B and O. This antibody reacts with ABC and BC isoforms. CD45RA is expressed on 40-50% of peripheral CD4+ T-cells, 50% of peripheral CD8+ T-cells, B-cells, and leukemic B-cell lines. T-cells expressing CD45RA are naive or virgin T-cells. T-cells expressing CD45RO are memory T-cells. CD45RA and CD45RO define complementary, predominantly non-overlapping populations of resting peripheral T-cells. This MAb is useful in study on the subpopulation of CD4+ or CD8+ T-cells. It can especially be used to differentiate T-cell lymphomas (CD45RO +ve) from B cell lymphomas (CD45RA +ve).

## Application Notes

Optimal dilution of the CD45RA antibody should be determined by the researcher.

## Immunogen

Stimulated human leukocytes were used as the immunogen for the CD45RA antibody.

## Storage

Store the CD45RA antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

