

Datasheet for ABIN6940464

anti-CD45 antibody

5 Images

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Overview

Quantity:	100 µg
Target:	CD45 (PTPRC)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Western Blotting (WB), Staining Methods (StM), Immunomicroscopy (IM)

Product Details

Immunogen:	Stimulated human leukocytes
Clone:	111-1C5
Isotype:	IgG1 kappa
Specificity:	Recognizes a protein of 205 kDa-220 kDa, identified as CD45RA which is an isoform 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-

Product Details

cell lymphomas (CD45RO +ve) from B cell lymphomas (CD45RA +ve).

Purification: Purified by Protein A/G

Target Details

Target: CD45 (PTPRC)

Alternative Name: PTPRC ([PTPRC Products](#))

Molecular Weight: 205-220kDa

Gene ID: 5788

UniProt: [P08575](#)

Pathways: [TCR Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [CXCR4-mediated Signaling Events](#), [BCR Signaling](#)

Application Details

Application Notes: Positive Control: Jurkat, Daudi, Raji, IM9 and human lymphocytes. Human lymph nodes, spleen and tonsils.

Known Application: Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

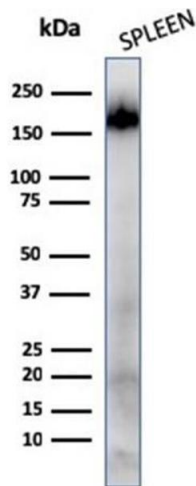
Storage: 4 °C, -80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

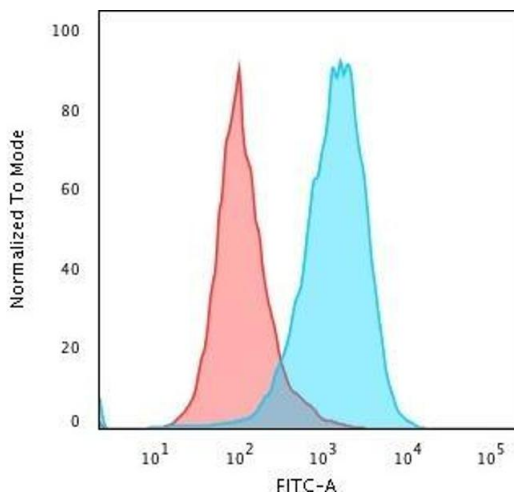
Expiry Date: 24 months

Images



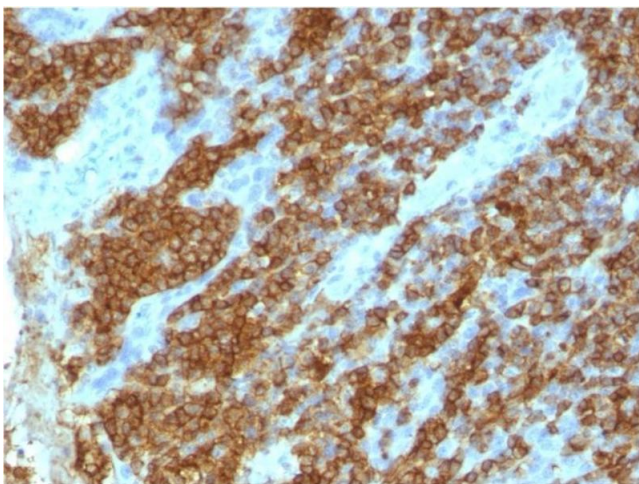
Western Blotting

Image 1. Western Blot Analysis of human Spleen tissue lysates using CD45RA Mouse Monoclonal Antibody (111-1C5)



Flow Cytometry

Image 2. Flow Cytometric Analysis of paraformaldehyde-fixed Raji cells using CD45 Mouse Monoclonal Antibody (111-1C5) followed by Goat anti-Mouse-IgG-CF488 (Blue); Isotype Control (Red).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human tonsil stained with CD45RA Mouse Monoclonal Antibody (111-1C5)

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN6940464.