

Datasheet for ABIN6940452

Recombinant anti-CD45 antibody[Go to Product page](#)**4** Images

Overview

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

Product Details

Immunogen:	Human recombinant full-length CD45 protein
Clone:	RPTPRC-1460
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	PTPRC (PTPRC Products)
Background:	CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane

Target Details

glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45R functions as a phosphor-tyrosine phosphatase. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.

Molecular Weight:	180-220kDa
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: Ramos, U-698 or GA-10 cells. Tonsil and Spleen. Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Western Blot (1-2 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1.0 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.
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Restrictions:	For Research Use only
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Handling

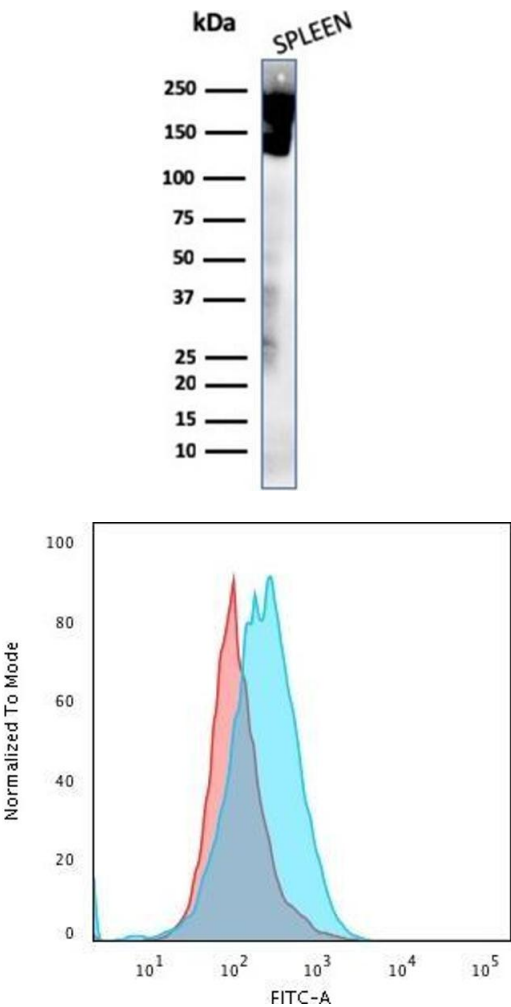
Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -80 °C

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

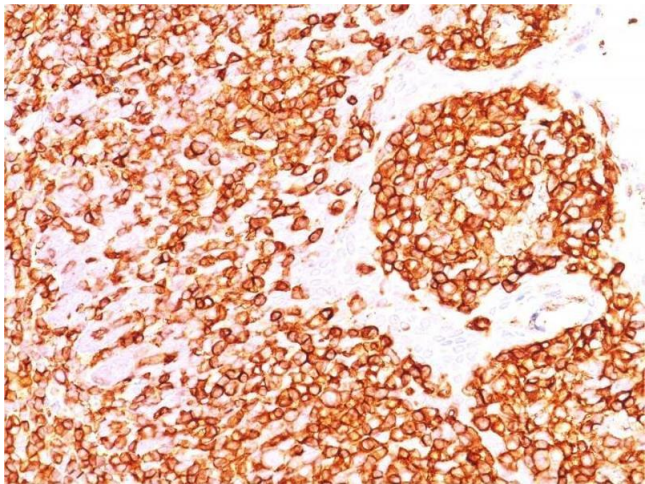


Western Blotting

Image 1. Western Blot Analysis of human spleen tissue lysates using CD45 Mouse Recombinant Monoclonal Antibody (rPTPRC/1460)

Flow Cytometry

Image 2. Flow Cytometric Analysis of paraformaldehyde-fixed Raji cells using CD45 Mouse Recombinant Monoclonal Antibody (rPTPRC/1460) followed by Goat anti- Mouse- IgG- CF488 (Blue); Isotype Control (Red).



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Tonsil stained with CD45 Mouse Recombinant Monoclonal Antibody (rPTPRC/1460).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6940452.