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Datasheet for ABIN6940460

## anti-CD45 antibody

6 Images

1 Publication

### Overview

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

### Product Details

Immunogen:	Isolated neoplastic cells from T cell lymphoma (2B11), and human peripheral blood lymphocytes maintained in T cell growth factor (PD7/26)
Clone:	2B11-PD7-26
Isotype:	IgG1 kappa
Specificity:	Recognizes the CD45 leukocyte common antigen (LCA) family which is comprised of at least four isoforms of membrane glycoproteins (220, 205, 190, 180 kDa) expressed on hematopoietic cell lines but absent on non-hematopoietic cell lines, normal and malignant non-hematopoietic tissues. The intracellular portions of these molecules have protein phosphatase activity and are involved in regulation of transmembrane signals. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms. A positive result with this MAb is highly indicative of lymphoid or myeloid origin. Certain types of lymphoid neoplasms may lack CD45 (Hodgkin lymphoma, some T-cell lymphomas, and some leukemias)

## Product Details

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so its absence does not rule out a hematolymphoid tumor. This antibody is expressed almost exclusively by cells of hematopoietic lineage and is present in most benign and malignant lymphocytes as well as plasma cell precursors.

Purification: Purified by Protein A/G

## Target Details

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Target: CD45 (PTPRC)

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

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

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Application Notes: Positive Control: Jurkat, Ramos, U-698 or GA-10 cells. Tonsil and Spleen.  
Known Application: Flow Cytometry (0.5-2 µg/million cells), 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.

Restrictions: For Research Use only

## Handling

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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

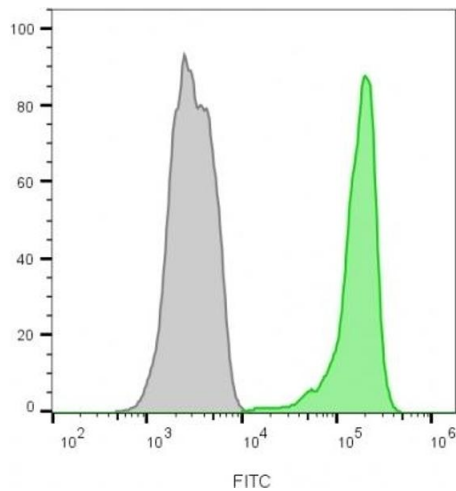
Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

## Publications

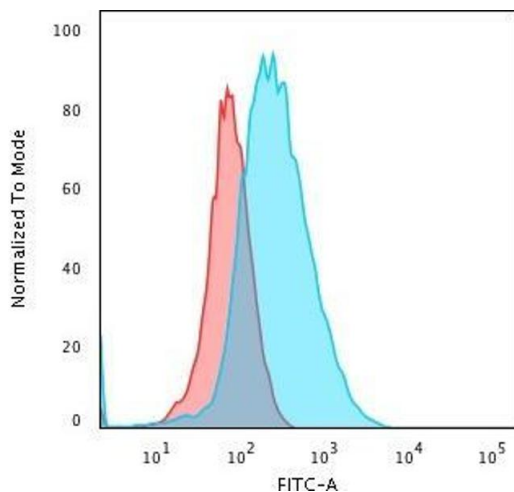
Product cited in: Kulka, Brennan, Mc Gee: "Investigation of canine extracellular vesicles in diffuse large B-cell lymphomas." in: **PloS one**, Vol. 17, Issue 9, pp. e0274261, (2022) ([PubMed](#)).

## Images



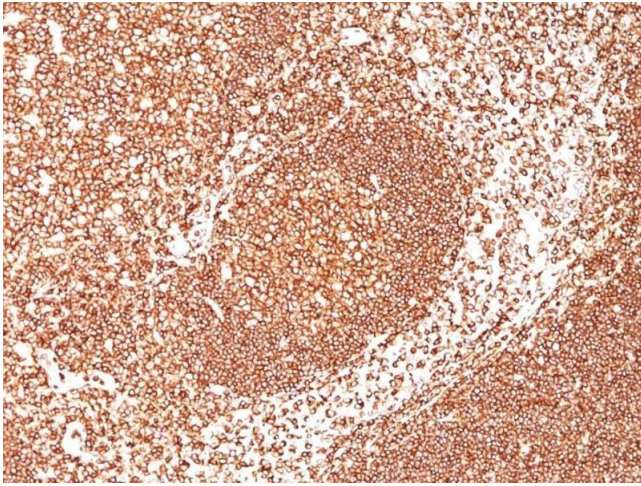
### Flow Cytometry

**Image 1.** Flow cytometry analysis of lymphocyte-gated PBMCs unstained (gray) or stained with CF488A-labeled CD45 monoclonal antibody (2B11+PD7/26) (green).



### Flow Cytometry

**Image 2.** Flow Cytometric Analysis of PFA-fixed Jurkat cells using CD45 Mouse Monoclonal Antibody (2B11+PD7/26) followed by Goat anti- Mouse- IgG-CF488 (Blue); Isotype Control (Red).



### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Tonsil stained with CD45 Mouse Monoclonal Antibody (2B11+PD7/26).

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6940460.