

Datasheet for ABIN7278617

anti-CD45 antibody (violetFluor™ 500)[Go to Product page](#)**1** Image

Overview

Quantity:	100 tests
Target:	CD45 (PTPRC)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD45 antibody is conjugated to violetFluor™ 500
Application:	Flow Cytometry (FACS)

Product Details

Clone:	HI30
Isotype:	IgG1 kappa
Cross-Reactivity:	Chimpanzee
Purification:	This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted biotin removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

Target Details

Target:	CD45 (PTPRC)
Alternative Name:	CD45 (PTPRC Products)
Background:	The HI30 antibody reacts with human CD45, one of the most abundant hematopoietic markers

Target Details

and one that is expressed on all leukocytes (the Leukocyte Common Antigen, LCA). CD45 is a protein tyrosine phosphatase existing in several isoforms, each being generated and expressed in cell-specific patterns. With its broad cell distribution, CD45 is critical for many leukocyte functions, regulating signal transduction and cell activation associated with the T cell receptor, B cell receptor, and IL-2 receptor. Other forms of CD45, with restricted cellular expression, include CD45R (B220), CD45RA, CD45RB, CD45RO and others. The HI30 antibody is widely used as a marker for human CD45 expression on T cells, B cells, monocytes, macrophages, and NK cells.

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: This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 5 µL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells. violetFluor™ 500 dye is excited by the violet (405 nm) laser and has a peak emission of 500 nm. The recommended band pass filter for this dye is 525/20. violetFluor™ 500 can be used as an alternative for BD Horizon™ V500, eFluor® 506 or Pacific Orange®.

Comment: 5 µL (0.5 µg)/test

Restrictions: For Research Use only

Handling

Buffer: 10 mM NaH₂PO₄, 150 mM NaCl, 0.09 % Sodium azide, 0.1 % gelatin, pH 7.2

Preservative: Sodium azide

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

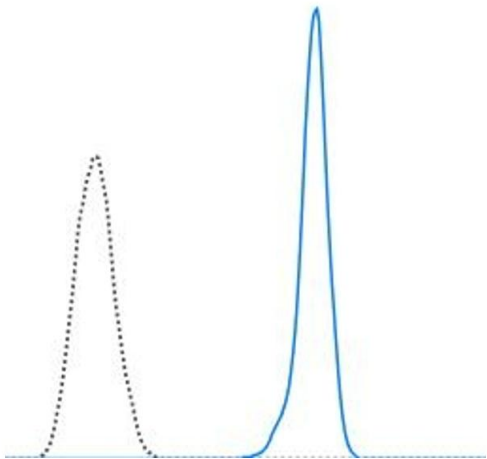
Storage: 4 °C

Handling

Storage Comment: 2-8°C protected from light

Expiry Date: 12 months

Images



Flow Cytometry

Image 1. Human peripheral blood lymphocytes were stained with 5 μ L(0.5 μ g) violetFluor500 Anti-Human CD45 (ABIN6961870) (solid line) or 0.5 μ g violetFluor500 Mouse IgG1 isotype control (dashed line).