

violetFluor™ 450 Anti-Human CD45 (HI30) Antibody
Catalog # ATB10359**Specification****violetFluor™ 450 Anti-Human CD45 (HI30) Antibody - Product Information**

Application	FC
Isotype	Mouse IgG1, kappa
Concentration	5 uL (1.0 ug)/test
Reactivity	Human
Formulation	10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH7.2

violetFluor™ 450 Anti-Human CD45 (HI30) Antibody - Additional Information

Gene ID	5788
Gene Name	PTPRC
Alternative Name(s)	
Leukocyte Common Antigen, LCA, Ly-5	

Format
violetFluor™ 450

Preparation

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye 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.

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 uL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 uL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10⁵ to 1x10⁸ cells. violetFluor™ 450 dye is excited by the violet (405 nm) laser and has a peak emission of 450 nm. The most common band pass filters for this dye are 440/40 or 450/50. violetFluor™ 450 can be used as an alternative for Pacific Blue®, BD Horizon™ V450 or eFluor® 450.

Storage Conditions

2-8°C protected from light

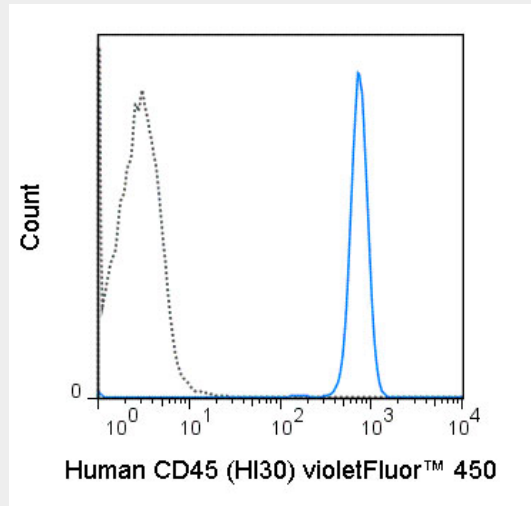
violetFluor™ 450 Anti-Human CD45 (HI30) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

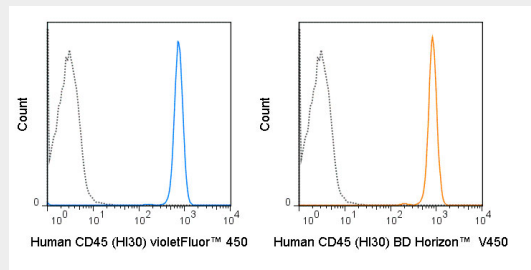
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

violetFluor™ 450 Anti-Human CD45 (HI30) Antibody - Images



Human peripheral blood lymphocytes were stained with 5 uL (1.0 ug) violetFluor™ 450 Anti-Human CD45 (ATB10359) (solid line) or 1.0 ug violetFluor™ 450 Mouse IgG1 isotype control (dashed line).



Human peripheral blood lymphocytes were stained with the recommended volume of violetFluor™ 450 Anti-Human CD45 (HI30) manufactured by Tonbo Biosciences (left panel) or Horizon™ V450 Anti-Human CD45 (HI30) manufactured by BD Biosciences (right panel).

violetFluor™ 450 Anti-Human CD45 (HI30) Antibody - Background

The HI30 antibody reacts with human CD45, one of the most abundant hematopoietic markers 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.