

**FITC Anti-Human CD45 (2D1) Antibody**  
Catalog # ATB10429

**Specification**

**FITC Anti-Human CD45 (2D1) Antibody - Product Information**

Application	FC
Isotype	Mouse IgG1, kappa
Concentration	5 µL (1 µg)/test
Reactivity	Human
Formulation	10mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% Na <sub>3</sub> N, 0.1% gelatin, pH7.2 0.1% gelatin, pH7.2

**FITC Anti-Human CD45 (2D1) Antibody - Additional Information**

Gene ID	5788
Gene Name	PTPRC
<b>Alternative Name(s)</b>	
Leukocyte Common Antigen, LCA, Ly-5, Hle-1	

**Format**  
FITC

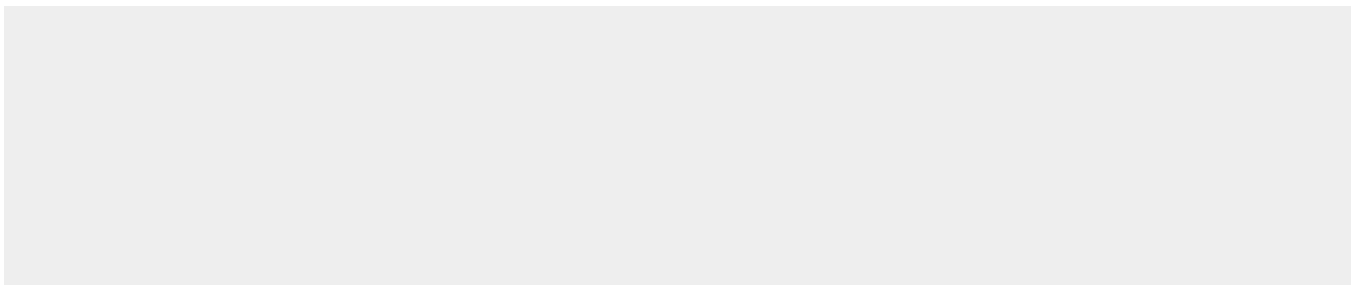
**Storage Conditions**  
2-8°C protected from light

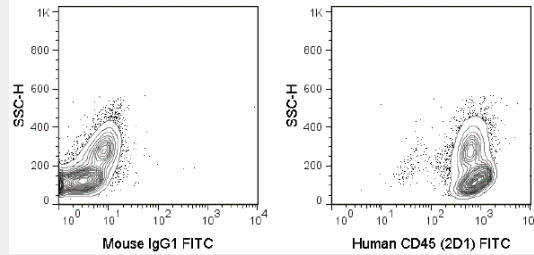
**FITC Anti-Human CD45 (2D1) Antibody - Protocols**

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](#)

**FITC Anti-Human CD45 (2D1) Antibody - Images**





Human PBMCs were stained with 5 uL (1 ug) FITC Anti-Human CD45 (2D1) manufactured by Tonbo Biosciences (left panel) or BD Biosciences (right panel).

### **FITC Anti-Human CD45 (2D1) Antibody - Background**

The 2D1 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, and CD45RO.

The 2D1 antibody is widely used as a marker for human CD45 expression on peripheral blood T cells, B cells, monocytes, macrophages, and NK cells

### **FITC Anti-Human CD45 (2D1) Antibody - References**

Bradstock KF, Janossy G, Pizzolo G, Hoffbrand AV, McMichael A, Pilch JR, Milstein C, Beverley P and Bollum FJ. 1980. *J. Natl. Cancer Inst.* 65(1): 33-42.

Schwinzer R. in Knapp W, Dorken B, et al. eds. 1989. *Leucocyte Typing IV: White Cell Differentiation Antigens.* Oxford University Press. New York. p. 628-634.

Nieminen JK, Sipponen T, Färkkilä M and Vaarala O. 2014. *Clin. Exp. Immunol.* 177(1): 190-202. (Flow Cytometry)

Piątosa B, Wolska-Kuśnierz B, Pac M, Siewiera K, Gałkowska E and Bernatowska E. 2010. *Cytometry Part B.* 78B: 372-381. (Flow Cytometry)