

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 ₂ PO ₄ , 150 mM NaCl, 0.09% Na ₃ N, 0.1% gelatin, pH 7.2 0.1% gelatin, pH 7.2

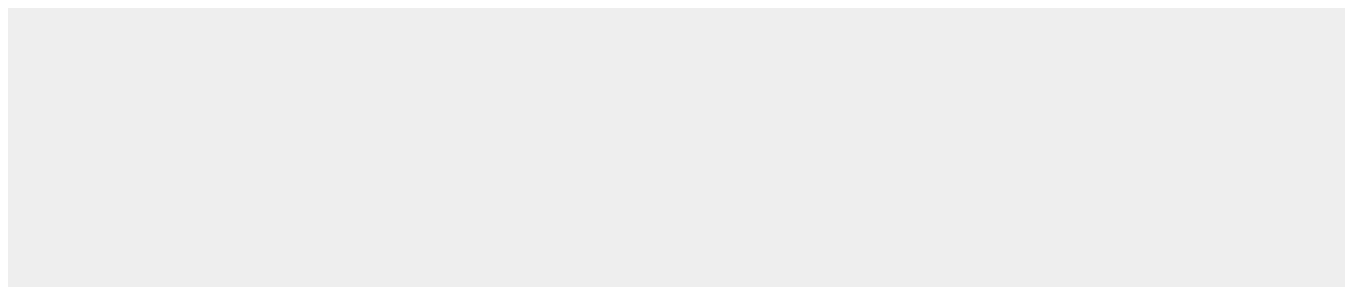
FITC Anti-Human CD45 (2D1) Antibody - Additional Information

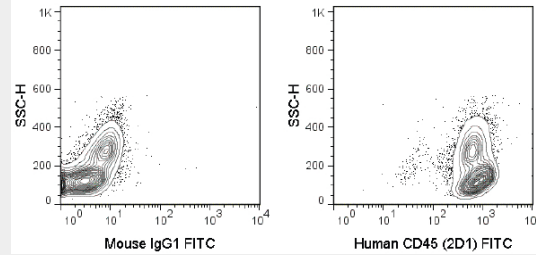
Gene ID	5788
Gene Name	PTPRC
Alternative Name(s)	
Leukocyte Common Antigen, LCA, Ly-5, Hle-1	

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)