10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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 NaH2PO4, 150 mM NaCl, 0.09% NaN3,0.1%gelatin,pH7.2 0.1% gelatin, pH7.2**

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

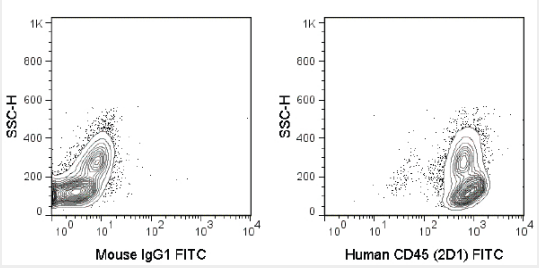
FITC Anti-Human CD45 (2D1) Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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)