

ANTI-HUMAN CD45 FITC

**FITC-Conjugated Mouse Monoclonal Antibody Against Human CD45
Clone 2D1**

Catalog # 10417

100 tests

SPECIFICITY:

CD45 (Leukocyte Common Antigen) is expressed in at least 5 different isoforms ranging from 180 to 220 kDa. These isoforms are generated by alternative splicing of 3 exons, A, B and C. All isoforms have the same eight N-terminal amino acid residues that are followed by the various combinations of the peptides encoded by the A, B and C exons. All members of the CD45 family are transmembrane glycoproteins and at least one CD45 isoform is expressed on the surface of all human leukocytes. CD45 is an important immunoregulatory molecule encoding two tandem phospho-tyrosine phosphatase domains. It is highly expressed on lymphocytes making it a major component of the membrane of these cells. It is also expressed at lower levels on eosinophils, monocytes, basophils, neutrophils and progenitors. CD45 is not expressed on erythrocytes or platelets. The 2D1 monoclonal antibody binds all CD45 isoforms.

CLONE: 2D1

ISOTYPE: IgG₁κ (mouse)

FORMAT:

100 µg in 2 mL (50 µg/mL) in phosphate buffered saline (PBS) containing gelatin and 0.1% (w/v) sodium azide.

STABILITY AND STORAGE:

Store at 4°C. Do not freeze. Product is stable for at least 6 months.

APPLICATIONS AND DIRECTIONS FOR USE:

Flow cytometry:

Recommended amount per 1x10⁶ cells in a volume of 100 µL: 20 µL

Appropriate conditions should be established for each application.

Cell separation: Positive selection of human CD45⁺ cells with StemCell's reagents for immunomagnetic cell separation. Please contact us for more information.

**NOT FOR CLINICAL USE; INCLUDING IN VITRO DIAGNOSTIC USE, AND EX VIVO OR IN
VIVO THERAPEUTIC USE IN CLINICAL TRIALS OR IN CLINICAL PRACTISE.
THIS REAGENT IS FOR RESEARCH ONLY**

Hazardous Ingredient: Sodium Azide. Avoid exposure to skin and eyes, ingestion and contact with heat, acids and metals. Wash exposed skin with soap and water. Flush eyes with water. Dilute with running water before discharging into plumbing.

REFERENCES:

1. Barclay AN, Brown MH, Law SKA, McKnight AJ, Tomlinson MG, van der Merwe PA, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD45. Academic Press, NY, p 244-247.
2. Dalchau R, Kirkley J, Fabre JW; Monoclonal antibody to a human leukocyte-specific membrane glycoprotein probably homologous to the leukocyte-common (L-C) antigen of the rat. 1980, Eur J Immunol 10:737-744
3. Shah VO, Civin CI, Loken MR, Flow cytometric analysis of human bone marrow. IV. Differential quantitative expression of T-200 common leukocyte antigen during normal hemopoiesis. 1988, J Immunol 15: 1861-1867.