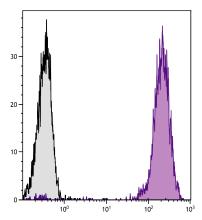
# SouthernBiotech 1



## Mouse Anti-Human CD45

Cat. No.	Format	Size
9624-01	Purified (UNLB)	0.1 mg
9624-02	Fluorescein (FITC)	100 tests
9624-08	Biotin (BIOT)	100 tests
9624-09	R-phycoerythrin (PE)	100 tests
9624-11	Allophycocyanin (APC)	100 tests
9624-26	Pacific Blue™ (PACBLU)	100 tests
9624-30	Alexa Fluor® 488 (AF488)	100 tests
9624-31	Alexa Fluor® 647 (AF647)	100 tests



Human peripheral blood lymphocytes were stained with Mouse Anti-Human CD45-PE (SB Cat. No. 9624-09).

#### **Overview**

Clone 2D

**Isotype** Mouse (BALB/c)  $IgG_1\kappa$ 

Immunogen Human peripheral blood mononuclear cells

Specificity Human CD45; Mr 180-220 kDa

Alternate Name(s) LCA, T200, Ly5 Workshop III 360, 792

## **Description**

CD45, also known as the leukocyte common antigen (LCA), exists as four different isoforms (180, 190, 205, 220 kDa) that are generated by alternative splicing of three exons. LCA is found on all cells of hematopoietic origin, except erythrocytes and platelets. CD45 expression is required for T cell and B cell antigen receptor-mediated activation.

### **Applications**

FC – Quality tested <sup>6</sup>

IHC-FS – Reported in literature 1-3

IHC-PS - Reported in literature 4

IP-NR – Reported in literature <sup>5,6</sup>

WB-NR – Reported in literature <sup>5</sup>

## **Working Dilutions**

Flow Cytometry Purified (UNLB) antibody  $\leq 1 \mu g/10^6 \text{ cells}$ 

FITC, BIOT, PE, APC, PACBLU, AF488, and AF647 conjugates 10  $\mu$ L/10<sup>6</sup> cells For flow cytometry, the suggested use of these reagents is in a final volume of 100  $\mu$ L

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is

appropriate for your specific need.

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## **Handling and Storage**

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No
  preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The Alexa Fluor<sup>®</sup> 488 (AF488), Alexa Fluor<sup>®</sup> 647 (AF647), and Pacific Blue<sup>™</sup> (PACBLU) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

#### Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

#### References

- 1. Gillitzer R, Berger R, Moll H. A reliable method for simultaneous demonstration of two antigens using a novel combination of immunogold-silver staining and immunoenzymatic labeling. J Histochem Cytochem. 1990;38:307-13. (IHC-FS)
- 2. Nickoloff BJ, Kunkel SL, Burdick M, Strieter RM. Severe combined immunodeficiency mouse and human psoriatic skin chimeras. Validation of a new animal model. Am J Pathol. 1995;146:580-8. (IHC-FS)
- Ménétrier-Caux C, Bain C, Favrot MC, Duc A, Blay JY. Renal cell carcinoma induces interleukin 10 and prostaglandin E₂ production by monocytes. Br J Cancer. 1999;79:119-30. (IHC-FS)
- 4. Charbord P, Tavian M, Humeau L, Péault B. Early ontogeny of the human marrow from long bones: an immunohistochemical study of hematopoiesis and its microenvironment. Blood. 1996;87:4109-19. (IHC-PS)
- 5. Poggi A, Pardi R, Pella N, Morelli L, Sivori S, Vitale M, et al. CD45-mediated regulation of LFA1 function in human natural killer cells. Anti-CD45 monoclonal antibodies inhibit the calcium mobilization induced via LFA1 molecules. Eur J Immunol. 1993;23:2454-63. (IP, WB)
- Lazarovits AI, Osman N, Le Feuvre CE, Ley SC, Crumpton MJ. CD7 is associated with CD3 and CD45 on human T cells. J Immunol. 1994;153:3956-66. (IP, FC)

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