

A Reliable Research Partner in Life Science and Medicine

## PE Anti-Mouse CD54 Antibody[YN1/1.7.4]

Catalog Number: E-AB-F1018D

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

Reactivity Mouse Rat Host

Isotype Rat IgG2b, ĸ YN1/1.7.4 Clone No.

PE Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09842D] Isotype Control

Conjugation

**Conjugation Information** PE is designed to be excited by the Blue (488 nm), Green (532 nm) and Yellow-Green

(561 nm) lasers and detected using an optical filter centered near 575 nm (e.g., a 585/42

nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

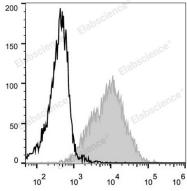
#### **Applications** Recommended usage

**FCM** Each lot of this antibody is quality control tested by flow cytometric analysis. The amount

of the reagent is suggested to be used 5 µL of antibody per test (million cells in 100 μL staining volume or per 100 μL of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for

individual use.

#### **Data**



C57BL/6 murine splenocytes are stained with PE Anti-Mouse CD54 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

#### **Preparation & Storage**

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

exposure to light and do not freeze.

**Shipping** Ice bag

#### **Antigen Information**

**Alternate Names** CD54;lcam-1;lcam1;Intercellular adhesion molecule 1;MALA-2;MvD10

**Uniprot ID** P13597 Gene ID 15894

### For Research Use Only

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# Elabscience®

#### **Elabscience Bionovation Inc.**

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#### **Background**

CD54 is a 90 kD immunoglobulin superfamily member also known as ICAM-1 and Ly-47. It is expressed on activated endothelial cells, high endothelial venules (HEV), T and B cells, monocytes/ macrophages, granulocytes, and dendritic cells. CD54 is an important intracellular adhesion molecule that participates in T cell-T cell, T cell-B cell, and T cell-target cell interactions via binding of LFA-1 (CD11a/CD18) and Mac-1 (CD11b/CD18). CD54 has also been shown to be involved in lymphocyte trafficking, making it an important molecule in many immune reactions and inflammation. CD54 is also a receptor for rhinovirus. The YN1/1.7.4 antibody has been reported to block binding of mouse CD54 to LFA-1 and Mac-1, inhibit cell-cell adhesion, and function in antigen presentation to T cells and leukocyte migration to inflammatory tissues.

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