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# PE/Cyanine7 Anti-Mouse CD54 Antibody[YN1/1.7.4]

Catalog Number: E-AB-F1018UH

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

#### Description

Reactivity Mouse Host Rat

Isotype Rat IgG2b, κ
Clone No. YN1/1.7.4

**Isotype Control** PE/Cyanine7 Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09843H]

Conjugation PE/Cyanine 7

Conjugation Information PE/Cyanine7 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 775 nm

(e.g., a 780/60 nm bandpass filter).

Storage Buffer Phosphate buffered solution, pH 7.2, containing 0.09% sodium azide and 1% BSA.

#### Applications Recommended usage

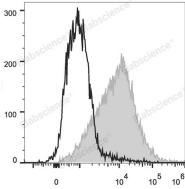
**FCM** Each lot of this antibody is quality control tested by flow cytometric analysis. Please

check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the

reagent to obtain optimal results [The recommended concentration is 0.1-1  $\mu$ g/10<sup>6</sup> cells in 100  $\mu$ g/10<sup>8</sup> cells

in 100 µL volume].

#### Data



C57BL/6 murine splenocytes are stained with PE/Cyanine7 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;MyD10

Web: www.elabscience.cn

 Uniprot ID
 P13597

 Gene ID
 15894

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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.

Web: www.elabscience.cn