



A Reliable Research Partner in Life Science and Medicine

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

Catalog Number: E-AB-F1018B

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** Biotin Rat IgG2b, κ Isotype Control[LTF-2] [Product E-AB-F09843B]

Conjugation Biotin

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. For flow

cytometric staining, the suggested use of this reagent is  $\leq$  1.0  $\mu$ g per 10<sup>6</sup> cells in 100  $\mu$ L volume or 100  $\mu$ L of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

**Preparation & Storage** 

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Do not freeze.

Shipping Ice bag

**Antigen Information** 

Alternate Names CD54:lcam-1:lcam1:Intercellular adhesion molecule 1:MALA-2:MyD10

 Uniprot ID
 P13597

 Gene ID
 15894

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.

For Research Use Only

 Toll-free: 1-888-852-8623
 Tel: 1-832-243-6086
 Fax: 1-832-243-6017

 Web:www.elabscience.com
 Email:techsupport@elabscience.com
 Rev. V1.5