

ANTI-MOUSE CD54

**Rat Monoclonal Antibody Against Mouse CD54
Clone YN1/1.7.4**

Catalog # 01503

0.1 mL (100 mg)

SPECIFICITY:

CD54 (ICAM-1) is a 95 kD member of the Ig superfamily. It is expressed by lymphocytes, macrophages and dendritic cells, as well as by vascular endothelium and high endothelial venules. ICAM-1 is an important intercellular adhesion molecule that contributes towards T-cell/T-cell, T-cell/B-cell and T-cell/target cell interactions via binding of LFA-1 and Mac-1 (CD11a/CD18 and CD11b/CD18 complexes, respectively) and participates in lymphocyte tracking and T-cell signal transduction events. It is also the receptor for the major group of rhinoviruses. The YN1/1.7.4 monoclonal antibody efficiently blocks the binding of ICAM-1 to LFA-1 and Mac-1 and inhibits ICAM-1 mediated functions including cell-cell adhesion, antigen presentation to T-cells and leukocyte migration to inflammatory tissues.

CLONE: YN1/1.7.4

ISOTYPE: IgG₂, κ (rat)

FORMAT:

0.1 mg of purified antibody in 0.1mL phosphate buffered saline (PBS), sterilized by filtration.

STABILITY AND STORAGE:

Store at 4°C or at -20°C in useful aliquots. Avoid repeat freeze thaw cycles. Product is stable for 2 years. Addition of 0.1% sodium azide (final) is recommended once vial has been opened.

Contents sterile if unopened.

APPLICATIONS AND DIRECTIONS FOR USE:

Centrifuge tube briefly before use to ensure recovery of entire contents.

Flow cytometry, immunoprecipitation, blocking studies, immunoblotting

Appropriate conditions should be established for each application. This antibody is suitable for immunoblotting if the proteins are separated under non-reducing conditions.

Cell separation:

Positive selection of murine CD54⁺ cells with StemCell's reagents for immunomagnetic cell separation. Please contact us for more information.

**THIS REAGENT IS FOR RESEARCH ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**

REFERENCES:

1. Takei F. Inhibition of mixed lymphocyte response by a rat monoclonal antibody to a novel murine lymphocyte activation antigen (MALA-2). J Immunol. 134: 1403-1407, 1985.
2. Horley KJ, Carpenito C, Baker B, Takei F. Molecular cloning of murine intercellular adhesion molecule (ICAM-1). EMBO J. 8: 2889-2896, 1989.