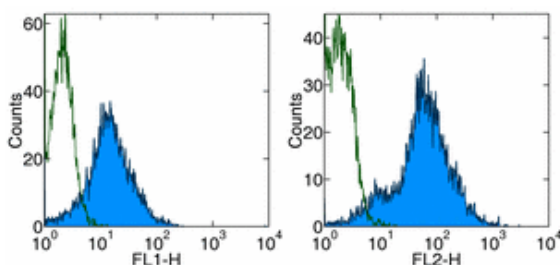


Anti-Mouse CD54 (ICAM-1) Purified

Catalog Number: 14-0541

Also Known As: InterCellular adhesion molecule-1, ICAM1

RUO: For Research Use Only



Staining of mouse splenocytes with Anti-Mouse CD54 (ICAM-1) FITC (left) and PE (right). Autofluorescence is shown via open histogram. Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD54 (ICAM-1) Purified


REF Catalog Number: 14-0541

Clone: YN1/1.7.4


Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2b, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

LOT Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The YN1/1.7.4 monoclonal antibody reacts with mouse CD54 (InterCellular Adhesion Molecule-1, ICAM-1), a 90-110 kDa transmembrane glycoprotein expressed by monocytes, lymphocytes, dendritic cells, and endothelial cells. Expression of CD54 is upregulated on activated lymphocytes. Interaction of CD54 with its ligands CD11a and CD11b is important in the inflammatory response. The YN1/1.7.4 monoclonal antibody recognizes a different epitope than the eBioKAT-1 monoclonal antibody.

Applications Reported

The YN1/1.7.4 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining. YN1/1.7.4 has also been reported in blocking of CD54 in functional studies. (Please use Functional Grade purified YN1/1.7.4, cat. 16-0541, in functional assays.)

Applications Tested

The YN1/1.7.4 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 0.5 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

- Burns, A. R., F. Takei, et al. (1994). "Quantitation of ICAM-1 expression in mouse lung during pneumonia." *J Immunol* 153(7): 3189-98.
- Fabry, Z., M. M. Waldschmidt, et al. (1992). "Adhesion molecules on murine brain microvascular endothelial cells: expression and regulation of ICAM-1 and Lgp 55." *J Neuroimmunol* 36(1): 1-11.
- Jevnikar, A. M., R. P. Wuthrich, et al. (1990). "Differing regulation and function of ICAM-1 and class II antigens on renal tubular cells." *Kidney Int* 38(3): 417-25.
- Kumasaka, T., W. M. Quinlan, et al. (1996). "Role of the intercellular adhesion molecule-1(ICAM-1) in endotoxin-induced pneumonia evaluated using ICAM-1 antisense oligonucleotides, anti-ICAM-1 monoclonal antibodies, and ICAM-1 mutant mice." *J Clin Invest* 97(10): 2362-9.

Related Products

- 11-4317 Streptavidin FITC
- 11-4811 Anti-Rat IgG FITC
- 12-4317 Streptavidin PE
- 13-4813 Anti-Rat IgG Biotin (Polyclonal)
- 14-4031 Rat IgG2b K Isotype Control Purified
- 17-4317 Streptavidin APC

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