Monoclonal Antibody CD54 (ICAM-1)

PN IM0544 – Purified – Freeze-dried – 0.2 mg – Clone 84H10

For Research Use Only. Not for use in diagnostic procedures.

SPECIFICITY
The CD54 antigen is an integral membrane glycoprotein with seven potential N-linked glycosylation sites. It has a 90 kDa molecular weight and is known as the InterCellular Adhesion Molecule-1 (ICAM-1). It mediates the adhesion of T lymphocytes with Antigen-Presenting Cells (APC) and is involved in T cell to T cell and T cell to B cell interactions. It is also involved in the adhesion of monocytes, lymphocytes and neutrophils to activated endothelium. It binds to the integrins LFA-1 (CD11a/CD18) (1) and Mac-1 (CD11b/CD18). It is a receptor for the rhinovirus. CD54 antigen is expressed by endothelial cells and by many other cell types upon activation. CD54 is expressed by endothelial cells, monocytes, and up regulated on B and T lymphocytes, thymocytes, dendritic cells, fibroblasts, keratinocytes, chondrocytes and epithelial cells. The 84H10 monoclonal antibody (mAb) inhibits ICAM-1 mediated adhesion to LFA-1. The 84H10 mAb has been assigned to the CD54 cluster of differentiation at the third International Workshop on Human Leucocyte Differentiation Antigens held in Oxford, UK, in 1986.

APPLICATION
Studies of CD54 positive cells by flow cytometry.

STATEMENT OF WARNINGS
1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY
This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label. No preservative has been added.

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

SELECTED RESEARCH REFERENCES

PRODUCT AVAILABILITY
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For additional information in the USA, call 800-526-7694. Outside the USA, contact your local Beckman Coulter representative. www.beckmancoulter.com

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