



RayBiotech, Inc.

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Certificate of Analysis and DataSheet

Mouse Anti CD54 ICAM-1

Catalog No.
MD-11-0091

Host Species
Mouse

Isotype
IgG₁

Description

Monoclonal Antibody to CD54 (ICAM-1)-Purified Whole Molecule

Preparation

Source: Cell culture
Immunogen : Rheumatoid synovial cells and human monocytes.
Purification: Protein G chromatography

Specificity

Recognizes the (Mr 85-115 kDa) intercellular adhesion molecule ICAM-1 which permits antigen-independent adhesion between lymphocytes and their targets. The LFA-1 binding site is located in domain 1 of ICAM-1(1,2). The CD54 antigen is a membrane glycoprotein with a wide tissue distribution that includes vascular endothelium and many cells of the immune system. CD54 is weakly expressed on resting peripheral blood lymphocytes. Upon activation by mitogens, the CD54 antigen is strongly expressed on B-cells, T-cells, macrophages and granulocytes. CD54 is the receptor for rhinoviruses and malaria(1).

Formulation

Format: Purified, Liquid
Concentration: 100ug/ml (OD280nm)
Buffer: 0.01M PBS, pH 7.2 containing 1.0% BSA.
Preservative: 0.09% Sodium Azide

Storage

Short term (up to 7 days) store at 2–8°C. Long term, aliquot and store at <-40°C. If aliquoted for long term storage, fill volume should be equal to or greater than 50% of the nominal fill volume of the vial used. Avoid repeated freeze/thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

May be used to study cell-cell interactions. We recommend using 1 μ g to stain 1.0×10^6 cells in flow cytometric applications. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Warning

This product contains sodium azide, which has been classified as Xn (Harmful) in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

References

1. Hogg, N. et al (1992) Cell, 68:71.
2. Hogg, N. et al (1992) J. of Cell Biology, 116:1527

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