



# Meridian

## Life Science,® Inc.

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### CERTIFICATE OF ANALYSIS

**Important Note:** Centrifuge before opening to ensure complete recovery of vial contents.

**Catalog #:** P01168B **Lot #:** 4B04309

**Description:** MAb to CD54 ICAM-1  
Monoclonal Antibody to CD54  
Biotin Conjugated

**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. ICAM-1 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.

**Clone:** 15.2

**Host Animal:** Mouse **Isotype:** IgG<sub>1</sub>

**Immunogen:** Rheumatoid synovial cells and human monocytes.

**Format:** Biotin, Liquid

**Purification:** Protein G Chromatography

**Concentration:** 0.1 mg/mL (OD280nm)

**Buffer:** 0.01 M PBS, pH 7.4 containing 1% BSA.

**Preservative:** 0.09% Sodium Azide

**Applications:** Anti-CD54 (ICAM-1) may be used to study cell-cell interactions. May also be used in studies of rhinovirus and malaria receptors. We recommend using 1 µg to stain 1 x 10<sup>6</sup> 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.

**Storage:** Store at 2-8°C. **DO NOT FREEZE.**

**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:** The references listed below are for research purposes only:

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

Signature

22 Nov 2016

Date

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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