10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

# CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2)

**Mouse Monoclonal Antibody**
**Catalog # ABV11481**

## Specification

### CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) - Product Information

| | |
|---|---|
| Application | **FC** |
| Primary Accession | P05362 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Isotype | **Mouse IgG1** |

### CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) - Additional Information

**Gene ID** 3383

| | |
|---|---|
| Positive Control | **FACS: Human peripheral blood lymphocytes** |
| Application & Usage | **Flow (Cell Surface): 5 µl/1x10^6 cells, Volume per test: 5 µl (0.5 µg).** |

**Other Names**
CD54/ICAM1

**Target/Specificity**
CD54/ICAM1

**Antibody Form**
Liquid

**Appearance**
Colorless liquid

**Formulation**
Phosphate-buffered aqueous solution pH 7.2, ≤0.09% Sodium azide, may contain carrier protein/stabilizer.

**Handling**
The antibody solution should be gently mixed before use.

**Reconstitution & Storage**
4°C

**Background Descriptions**

**Precautions**
CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) is for research use only and not for use in diagnostic or therapeutic procedures.

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## CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) - Protein Information

**Name** ICAM1

**Function**
ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation.

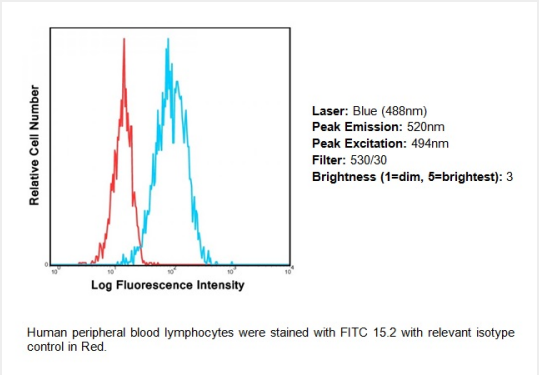
**Cellular Location**
Membrane; Single-pass type I membrane protein.

## CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) - Images



Human peripheral blood lymphocytes were stained with FITC 15.2 with relevant isotype control in Red.

Human peripheral blood lymphocytes were stained with FITC 15.2 with relevant isotype control in Red.

## CD54 (ICAM1) FITC Monoclonal Antibody (Clone 15.2) - Background

Inter-Cellular Adhesion Molecule 1 (ICAM-1), also known as Cluster of Differentiation 54 (CD54), is a member of the immunoglobulin superfamily, and is a cell surface glycoprotein which is typically expressed in low concentrations on endothelial cells and cells of the immune system. The protein encoded by this gene is a type of intercellular adhesion molecule continuously present in low concentrations in the membranes of leukocytes and endothelial cells. Upon cytokine stimulation, the concentrations greatly increase. ICAM-1 can be induced by interleukin-1 (IL-1) and tumor necrosis factor alpha (TNFα) and is expressed by the vascular endothelium, macrophages, and lymphocytes. ICAM-1 is a ligand for LFA-1 (integrin), a receptor found on leukocytes. When

activated, leukocytes bind to endothelial cells via ICAM-1/LFA-1 and then transmigrate into tissues. ICAM-1 has been implicated in subarachnoid hemorrhage (SAH). Levels of ICAM-1 are shown to be significantly elevated in patients with SAH over control subjects in many studies. ICAM-1 expressed by respiratory epithelial cells is also the binding site for rhinovirus, the causative agent of most common colds. The 15.2 antibody reacts with the 85-110 kDa ICAM-1.