Leader in Biomolecular Solutions for Life Science

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# ABflo® 647 Rabbit anti-Human CD54/ICAM-1 mAb

**Catalog No.: A22313**

## Basic Information

**Observed MW**

**Calculated MW**
58kDa

**Category**
Primary antibody

**Applications**
FC

**Cross-Reactivity**
Human

**CloneNo number**
ARC54998

**Conjugate**
ABflo® 647. Ex:648nm. Em:664nm.

## Background

Intercellular cell adhesion molecule-1 (CD54 or ICAM-1) is a cell surface glycoprotein that belongs to the immunoglobulin superfamily (IgSF) of adhesion molecules. CD54 is expressed at low levels in diverse cell types, and is induced by cytokines (TNF-α, interleukin-1) and bacterial lipopolysaccharide . Apical localization of CD54 on endothelial cells (or basolateral localization on epithelial cells) is a prerequisite for leukocyte trafficking through the endothelial (or epithelial) barrier . Apical expression of CD54 on epithelial cells mediates pathogen invasion as well as host defense, a pattern also observed in tumors . CD54 also functions as a co-stimulator on antigen presenting cells, binding to its receptor LFA-1 (leukocyte function-associated antigen-1) on the surface of T cells during antigen presentation . Cross-linking of CD54 or binding to its ligand triggers activation of Src family kinases and the Rho/ROCK pathway . Phosphorylation on Tyr485 of CD54 is required for its association with SHP-2. SHP-2 seems essential for CD54-induced Src activation.

## Recommended Dilutions

| | |
|---|---|
| **FC** | 5 µl per 10^6 cells in 100 µl volume |

## Immunogen Information

**Gene ID**
3383

**Swiss Prot**
P05362

**Immunogen**
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

**Synonyms**
BB2; CD54; P3.58

## Contact


400-999-6126

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## Product Information

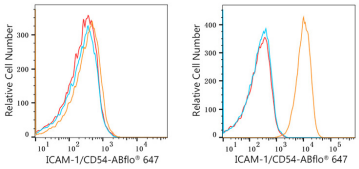
**Source**
Rabbit

**Isotype**
IgG

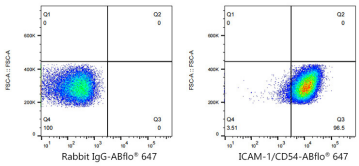
**Purification**
Affinity purification

**Storage**
Store at 2-8℃. Avoid freeze.
Buffer: PBS containing 0.2% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

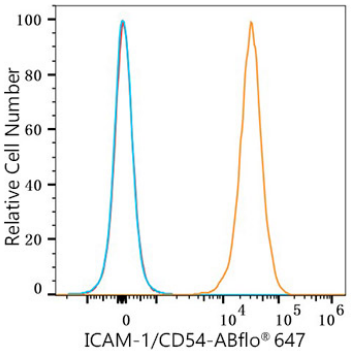
## Validation Data



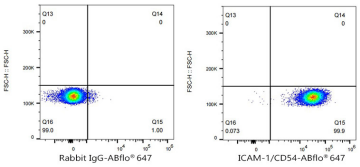

Flow cytometry: 1X10^6 293F cells (negative control,left) and Raji cells (right) were surface-stained with ABflo® 647 Rabbit anti-Human ICAM-1/CD54 mAb (A22313,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,blue line). Non-fluorescently stained cells was used as blank control (red line).




Flow cytometry: 1X10^6 Raji cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or ABflo® 647 Rabbit anti-Human ICAM-1/CD54 mAb (A22313,5 µl/Test,right).




Flow cytometry:1X10^6 Human PBMC were surface-stained with ABflo® 647 Rabbit anti-Human ICAM-1/CD54 mAb(A22313,5 µl/Test,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,blue line). Non-fluorescently stained cells were used as blank control (red line). Cells in the monocyte gate were used for analysis.




Flow cytometry:1X10^6 Human PBMC were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070,5 µl/Test,left) or ABflo® 647 Rabbit anti-Human ICAM-1/CD54 mAb(A22313,5 µl/Test,right). Cells in the monocyte gate were used for analysis.