Leader in Biomolecular Solutions for Life Science

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

Catalog No.: A22313

Basic Information

Observed MW

Calculated MW

58kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC54998-ABf647

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

Swiss Prot P05362

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 28-480 of human ICAM-1/CD54 (NP 000192.2).

Synonyms

BB2; CD54; P3.58

Contact



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Product Information

Source Rabbit **Isotype** IgG **Purification**Affinity purification

Storage

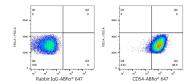
Store at 2-8°C. Avoid freeze.

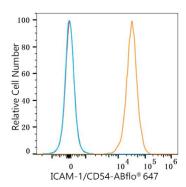
Buffer: PBS with 0.03% proclin300,0.2% BSA,pH7.3.

Validation Data

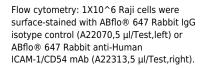




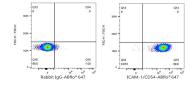




Flow cytometry: 1X10^6 293F cells (negative control,left) and Raji cells (right) were surface-stained with ABflo® 647 Rabbit anti-Human ICAM-1/CD54 mAb (A22313,2 µg/mL,orange line) or ABflo® 647 Rabbit IgG isotype control (A22070,2 µg/mL,blue line). Non-fluorescently stained cells was used as blank control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



Flow cytometry:1X10^6 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).



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