

PE Rabbit anti-Human ICAM-1/CD54 mAb

Catalog No.: A28255

Basic Information

Observed MW**Calculated MW**

58kDa

Category

Primary antibody

Applications

FC

Cross-Reactivity

Human

CloneNo number

ARC54998

Conjugate

PE. Ex:565nm. Em:574nm.

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 μ l per 10^6 cells in
100 μ l 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

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Product Information

Source

Rabbit

Isotype

IgG

Purification

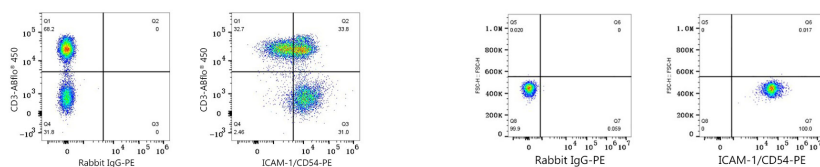
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1X10⁶ Human PBMC were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD3 mAb (A27177, 5 µl/Test) and PE Rabbit IgG isotype control (A24172, 5 µl/Test, left) or PE Rabbit anti-Human ICAM-1/CD54 mAb (A28255, 5 µl/Test, right). Cells in the lymphocyte gate were used for analysis.

Flow cytometry: 1X10⁶ Human PBMC were surface-stained with PE Rabbit IgG isotype control (A24172, 5 µl/Test, left) or PE Rabbit anti-Human ICAM-1/CD54 mAb (A28255, 5 µl/Test, right). Cells in the monocyte gate were used for analysis.