

Human CellExp ICAM1 /CD54, human recombinant protein
ICAM1, ICAM-1, BB2, BB-2, CD54, CD-54, P3.58
Catalog # PBV11107r**Specification**

Human CellExp ICAM1 /CD54, human recombinant protein - Product infoPrimary Accession
Calculated MW[P05362](#)

This protein is fused with Fc fragment of human IgG1 at the C-terminus and has a calculated MW of 75.7 kDa expressed. The predicted N-terminus is Gln 27. Protein migrates as 100-110 kDa in reduced SDS-PAGE resulting from glycosylation. KDa

Human CellExp ICAM1 /CD54, human recombinant protein - Additional InfoGene ID **3383**
Gene Symbol **ICAM1****Other Names**

ICAM1, ICAM-1, BB2, BB-2, CD54, CD-54, P3.58

Gene Source **Human**
Source **HEK293 cells**
Assay&Purity **SDS-PAGE; ≥98%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Results **Measured by the ability of the immobilized protein to support the adhesion of PMA-stimulated HSB2 human peripheral blood acute lymphoblastic leukemia cells. When 5×10⁴ cells/well are added to rhICAM/Fc Chimera coated plates (12.5 µg/ml with 100 µl/well), >60% will adhere after PMA 1 hour incubation at 37°C.**

Target/Specificity

ICAM1 /CD54

Application Notes

Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format

Lyophilized

Storage

-20°C; Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM glycine, pH 7.0. Normally Mannitol or Trehalose is added as protectants before lyophilization.

Human CellExp ICAM1 /CD54, human recombinant protein - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp ICAM1 /CD54, human recombinant protein - Images

Human CellExp ICAM1 /CD54, human recombinant protein - 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 (TNF α) 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.

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Staunton D.E., et al. Cell 52:925-933(1988).
Tomassini J.E., et al. Proc. Natl. Acad. Sci. U.S.A. 86:4907-4911(1989).
Voraberger G.F., et al. J. Immunol. 147:2777-2786(1991).
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