Datasheet for ABIN7196240

ICAM1 Protein (His tag,Fc Tag)

1 Image

Go to Product page

Overview

Quantity:	100 µg
Target:	ICAM1
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ICAM1 protein is labelled with His tag,Fc Tag.

Product Details

Purpose:	Recombinant Mouse ICAM-1/CD54 Protein (His & Fc Tag)(Active)
Sequence:	Met 1-Asn 485
Characteristics:	A DNA sequence encoding the extracellular domain of mouse ICAM1 (NP_034623.1) (Met 1-Asn 485) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Purity:	> 96 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by the ability of the immobilized protein to support the adhesion of PMA-stimulated HSB2 human peripheral blood acute lymphoblastic leukemia cells. When cells are added to mouse ICAM1 coated plates (12.5 µg/ml, 100 µl/well), approximately >50% cells will adhere specifically.

Target Details

Target:	ICAM1
Alternative Name:	ICAM-1/CD54 (ICAM1 Products)
Target Type:	Viral Protein
Background:	Background: Intercellular adhesion molecule-1 (ICAM-1, or CD54) is a 90 kDa member of the immunoglobulin (Ig) superfamily and is critical for the firm arrest and transmigration of leukocytes out of blood vessels and into tissues. ICAM-1 is constitutively present on endothelial cells, but its expression is increased by proinflammatory cytokines. The endothelial expression of ICAM-1 is increased in atherosclerotic and transplant-associated atherosclerotic tissue and in animal models of atherosclerosis. Additionally, ICAM-1 has been implicated in the progression of autoimmune diseases. ICAM-1 is a ligand for LFA-1(integrin). When activated, leukocytes bind to endothelial cells via ICAM-1/LFA-1 interaction and then transmigrate into tissues. Presence with heavy glycosylation and other structural characteristics, ICAM-1 possesses binding sites for a number of immune-associated ligands and serves as the binding site for entry of the major group of human Rhinovirus (HRV) into various cell types. ICAM-1 also becomes known for its affinity for Plasmodium falciparum-infected erythrocytes (PFIE), providing more of a role in infectious disease. Previous studies have shown that ICAM-1 is involved in inflammatory reactions and that a defect in ICAM-1 gene inhibits allergic contact hypersensitivity. Synonym: CD54,Icam-1,Ly-47,MALA-2
Molecular Weight:	78.3 kDa
NCBI Accession:	NP_034623
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Actin Filament Polymerization, Carbohydrate Homeostasis, Regulation of Leukocyte Mediated Immunity, Thromboxane A2 Receptor Signaling

Application Details

Restrictions:	For Research Use only

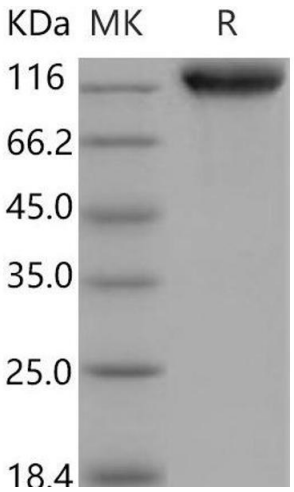
Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4

Handling

Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.