

Datasheet for ABIN2181238

ICAM1 Protein (AA 28-480) (Fc Tag)[Go to Product page](#)**2** Images**1** Publication

Overview

Quantity:	200 µg
Target:	ICAM1
Protein Characteristics:	AA 28-480
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ICAM1 protein is labelled with Fc Tag.

Product Details

Sequence:	AA 28-480
Characteristics:	This protein carries a human IgG1 Fc tag at the C-terminus. The protein has a calculated MW of 75.7 kDa. The protein migrates as 90-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>98 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	ICAM1
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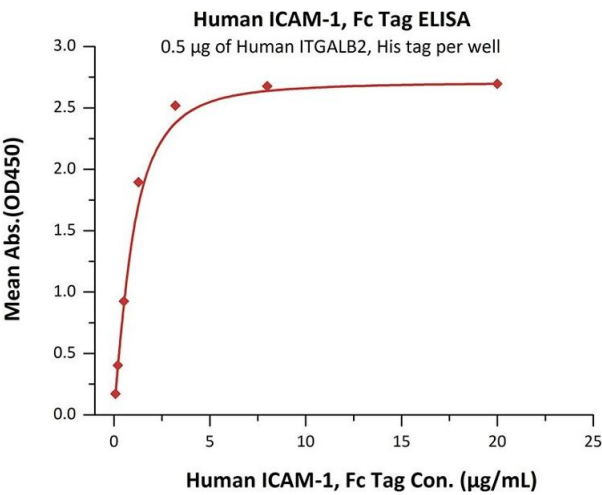
Target Details

Alternative Name:	ICAM-1 (ICAM1 Products)
Target Type:	Viral Protein
Background:	Inter-Cellular Adhesion Molecule 1 (ICAM-1) is 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 (TNFα) 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.
Molecular Weight:	75.7 kDa
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

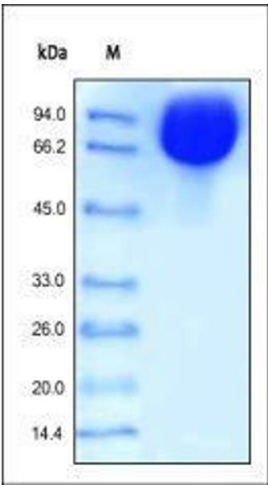
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	50 mM Tris, 100 mM Glycine, pH 7.5
Handling Advice:	Please avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

Product cited in: Sharma, Lawry, Klein, Wang, Sherer, Zumwalde, Gumperz: "LFA-1 Ligation by High-Density ICAM-1 Is Sufficient To Activate IFN- γ Release by Innate T Lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 201, Issue 8, pp. 2452-2461, (2018) ([PubMed](#)).



ELISA

Image 1. Immobilized Human ITGALB2, His tag at 5 μ g/mL (100 μ L/well) can bind Human ICAM-1, Fc Tag (ABIN2181238,ABIN2181237) with a linear range of 0.082-1.28 μ g/mL (Routinely tested).



SDS-PAGE

Image 2. Human ICAM-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.