

## Recombinant Human ICAM1 protein, Fc-tagged

Cat. No. ICAM1-655H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human ICAM1 protein (Gln28-Glu480), fused to human IgG1 Fc tag at C-terminus, was expressed in human 293 cells (HEK293).

**Species** Human

**Source** HEK293

**ProteinLength** 453

#### Description

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 (TNF $\alpha$ ) 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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<b>Form</b>	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
<b>Molecular Mass</b>	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.
<b>Endotoxin</b>	Less than 1.0 EU per ug by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	ICAM1
<b>Official Symbol</b>	ICAM1
<b>Synonyms</b>	ICAM1; intercellular adhesion molecule 1; BB2; CD54; human rhinovirus receptor; ICAM-1; cell surface glycoprotein P3.58; major group rhinovirus receptor; intercellular adhesion molecule 1 (CD54), human rhinovirus receptor; P3.58
<b>Gene ID</b>	3383

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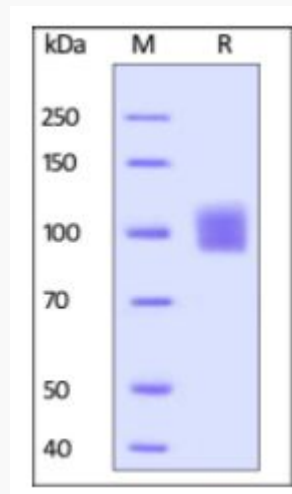
mRNA Refseq [NM\\_000201](#)

Protein Refseq [NP\\_000192](#)

MIM [147840](#)

UniProt ID [P05362](#)

**SDS-PAGE of ICAM1-655H**

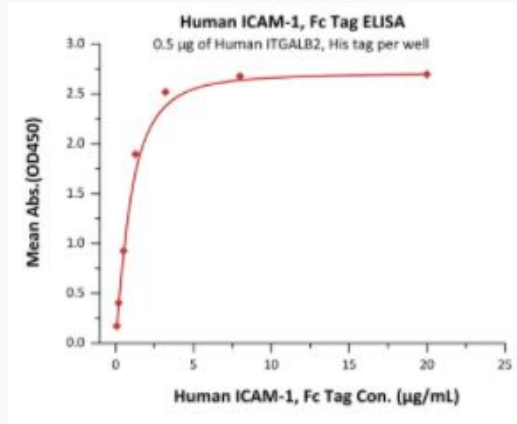


Human ICAM-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 98%.

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**Bioactivity-ELISA of  
ICAM1-655H**

Immobilized Human ITGALB2, His tag at 5 µg/mL (100 µL/well) can bind Human ICAM-1, Fc Tag with a linear range of 0.082-1.28 µg/mL (Routinely tested).

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