



Recombinant Protein Technical Manual  
Recombinant Human ICAM/CD54 Protein (Fc Tag)  
RPES1702

Product Data:

**Product SKU:** RPES1702

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P05362

Protein Information:

**Molecular Mass:** 76.8 kDa

**AP Molecular Mass:** 120 kDa

**Tag:** C-Fc

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Intercellular Adhesion Molecule 1; ICAM; Major Group Rhinovirus Receptor; CD54; ICAM1

## Immunogen Information:

**Sequence:** Asn26-Glu480

## Background:

Inter-Cellular Adhesion Molecule 1 (ICAM1) is a type of intercellular adhesion molecule continuously present in low concentrations in the membranes of leukocytes and endothelial cells. As an endothelial and leukocyte-associated transmembrane protein, ICAM1 is well known for its importance in stabilizing cell-cell interactions and facilitating leukocyte endothelial transmigration. The presence of heavy glycosylation and other structural characteristics lend ICAM1 binding sites for a number of immune-associated ligands. Notably, ICAM binds to macrophage adhesion ligand (Mac; ITGB2 / ITGAM), leukocyte function associated antigen (LFA/integrin), and fibrinogen. ICAM expressed by respiratory epithelial cells is also the binding site for rhinovirus, the causative agent of most common colds.