



# Recombinant Protein Technical Manual

## Recombinant Human ICAM-2/CD102 Protein (His Tag)

RPES1949

### Product Data:

**Product SKU:** RPES1949

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** P13598

### Protein Information:

**Molecular Mass:** 23.13 kDa

**AP Molecular Mass:** 55 kDa

**Tag:** C-His

**Bio-activity:**

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

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

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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, 2mM CaCl<sub>2</sub>, 2mM MgCl<sub>2</sub>, 5% Threhalose, pH 7.2.

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

**Application:**

**Synonyms:** Intercellular Adhesion Molecule 2; ICAM-2; CD102; ICAM2

## Immunogen Information:

**Sequence:** Lys25-Gln223

## Background:

ICAM-2 is a 55-65 kD transmembrane glycoprotein possessing 2 extracellular Ig domains, a single transmembrane domain, and a short 26-amino acid cytoplasmic domain. ICAM-2 is expressed on most leukocytes, and is strongly expressed on vascular endothelial cells. Interactions of ICAM-2 and the integrin receptors mediate cell adhesion in a wide range of lymphocyte, monocyte, natural killer cell, and granulocyte with other cells, and play important roles in many adhesion-dependent immune and inflammation responses, such as T cell aggregation, NK-cell cytotoxicity and migration, lymphocyte recirculation, etc. Serum levels of ICAM-2 correlated significantly with the inflammatory and course sequences of trichinosis in mice and had a similar relation with blood eosinophilia. So, estimation of ICAM-2 serum levels may prove useful in diagnosis of trichinosis recent infections, and in monitoring the prognosis and response to treatment.