



**LD Biopharma, Inc.**  
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<http://www.ldbiopharma.com>

## - PRODUCT DATA SHEET -

**Name of Product:** Recombinant Human ICAM2 (Extracellular) Protein  
**Catalog Number:** hRP-0359  
**Manufacturer:** LD Biopharma, Inc.

### Introduction

The protein encoded by human ICAM2 gene is a member of the intercellular adhesion molecule (ICAM) family. All ICAM proteins are type I transmembrane glycoproteins, contain 2-9 immunoglobulin-like C2-type domains, and bind to the leukocyte adhesion LFA-1 protein. This protein may play a role in lymphocyte recirculation by blocking LFA-1-dependent cell adhesion. It mediates adhesive interactions important for antigen-specific immune response, NK-cell mediated clearance, lymphocyte recirculation, and other cellular interactions important for immune response and surveillance. Several transcript variants encoding the same protein have been found for this gene.

Full-length extracellular domain of human ICAM2 gene (25-223 aa) was constructed with 29 N-terminal T7/His tag and expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified. Coating this recombinant protein at 1-10 ug / well (6 well plate) in neuronal cell specific medium can be used for human lymphocyte / receptor interaction study in vitro.

**Gene Symbol:** ICAM2 (CD102)  
**Accession Number:** NP\_000864  
**Species:** Human  
**Size:** 100 µg / Vial  
**Composition:** 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.  
**Storage:** In Liquid. Keep at -20°C for long term storage. Product is stable at 4 °C for at least 30 days.



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## Key References

Staunton, D.E., et al. *Functional cloning of ICAM-2, a cell adhesion ligand for LFA-1 homologous to ICAM-1.* Nature (1989) 339 (6219), 61-64 (1989).

Hiraoka, N., et al. *CXCL17 and ICAM2 are associated with a potential anti-tumor immune response in early intraepithelial stages of human pancreatic carcinogenesis.* Gastroenterology 140 (1), 310-321 (2011).

## Applications

1. Protein can be used as coating matrix protein for study human lymphocyte / Receptor interaction in vitro.
2. As highly purified protein, may be used as culture matrix protein anti-tumor immune-response study in vitro.

## Quality Control

1. Purity: > 90% by SDS-PAGE.
2. Functional Test: Not tested yet.

## Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHGNLYFQGGEFELKVFVHVRPKKLAVEPKGSLEVNCSTTCNQPEV  
GGLETSLDKILLDEQAQWKHYLVSNISHDTVLQCHFTCSGKQESMNSNVSVYQPPRQVILTLQP  
TLVAVGKSFTIECRVPTVEPLDSLTLFLFRGNETLHYETFGKAAPAPQEATATFNSTADREDGH  
RNFSCLAVLDLMSRGGNIFHKHSAPKMLEIYEPVSDSQ