

For Research Use Only

# Mouse ICAM-1/CD54 Recombinant antibody, PBS Only

Catalog Number: 82827-8-PBS



## Basic Information

|                                       |  |   |
|---------------------------------------|--|---|
| <b>Catalog Number:</b><br>82827-8-PBS | <b>GenBank Accession Number:</b><br>NM_010493          | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>1 mg/ml               | <b>GeneID (NCBI):</b><br>15894                         | <b>CloneNo.:</b><br>240249H6                          |
| <b>Source:</b><br>Rabbit              | <b>UNIPROT ID:</b><br>P13597                           |   |
| <b>Isotype:</b><br>IgG                | <b>Full Name:</b><br>intercellular adhesion molecule 1 |   |
|                                       | <b>Calculated MW:</b><br>59 kDa                        |   |
|                                       | <b>Observed MW:</b><br>85-110 kDa                      |   |

## Applications

**Tested Applications:**  
WB, IHC, IF-P, ELISA

**Species Specificity:**  
mouse

## Background Information

ICAM-1 (CD54) is a transmembrane glycoprotein of the immunoglobulin superfamily and is critical for the firm attachment and transmigration of leukocytes out of blood vessels and into tissues (PMID: 19307690). ICAM-1 is expressed by several cell types, typically on endothelial cells and cells of the immune system, and its expression can be up-regulated by various stimuli, including TNF- $\alpha$ , INF- $\gamma$ , IL-1 and thrombin (PMID: 3086451; 9694714; 15979056). It is a ligand for LFA-1 and Mac-1, serves as a receptor for rhinovirus, and is one of several receptors used by Plasmodium falciparum (PMID: 2566624; 2538244; 2475784).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

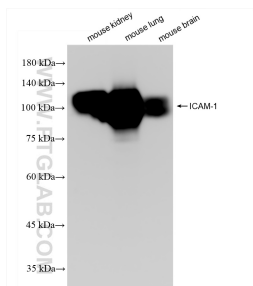
T: 4006900926

E: Proteintech-CN@ptglab.com

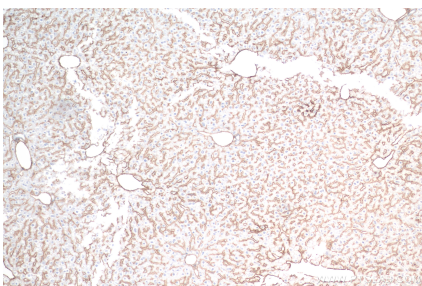
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

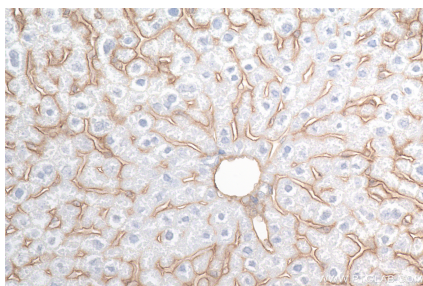
## Selected Validation Data



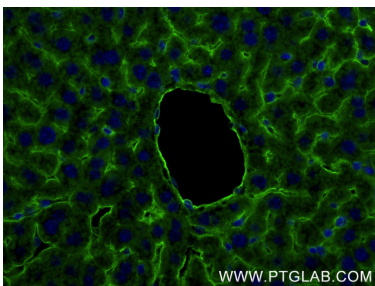
Various lysates were subjected to SDS PAGE followed by western blot with 82827-8-RR (ICAM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82827-8-PBS in a different storage buffer formulation.



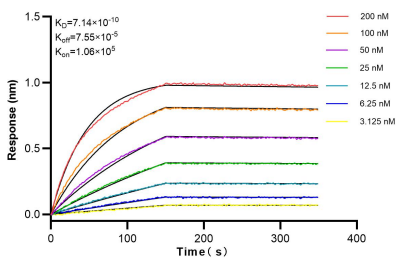
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 82827-8-RR (ICAM-1/CD54 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82827-8-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 82827-8-RR (ICAM-1/CD54 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82827-8-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse liver tissue using ICAM-1/CD54 antibody (82827-8-RR, Clone: 240249H6) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82827-8-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82827-8-RR against Mouse ICAM-1 were performed. The affinity constant is 0.714 nM.