

For Research Use Only

# Rat ICAM-1/CD54 Recombinant antibody, PBS Only (Capture)

Catalog Number: 83696-3-PBS



## Basic Information

<b>Catalog Number:</b> 83696-3-PBS	<b>GenBank Accession Number:</b> NM_012967.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 25464	<b>CloneNo.:</b> 240725C2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q00238	
<b>Isotype:</b> IgG	<b>Full Name:</b> intercellular adhesion molecule 1	
	<b>Calculated MW:</b> 60 kDa	
	<b>Observed MW:</b> 85 kDa	

## Applications

**Tested Applications:**  
WB, IHC, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
rat

## 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:

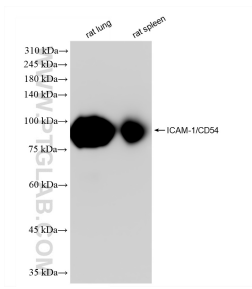
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

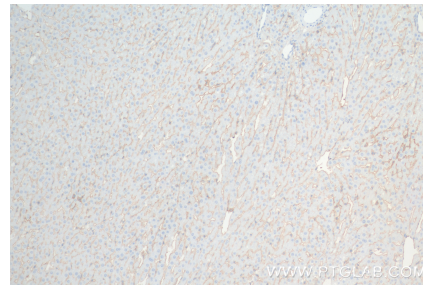
W: [ptgcn.com](http://ptgcn.com)

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

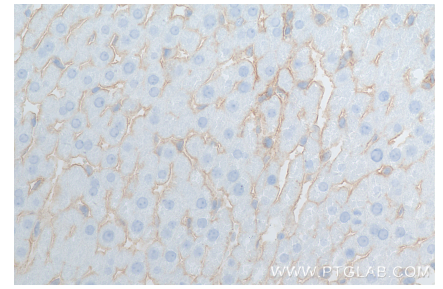
## Selected Validation Data



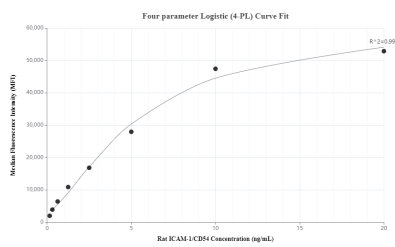
Various lysates were subjected to SDS PAGE followed by western blot with 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83696-3-PBS in a different storage buffer formulation.



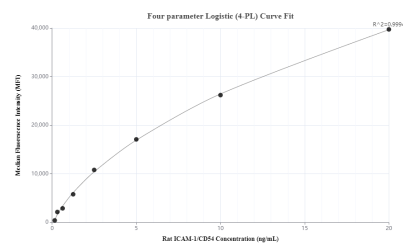
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83696-3-PBS in a different storage buffer formulation.



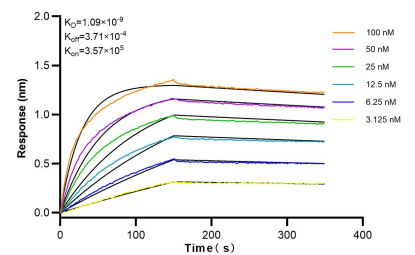
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83696-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00678-1, RAT ICAM-1/CD54 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83696-3-PBS. Detection antibody: 83696-1-PBS. Standard: Eg1025. Range: 0.156-20 ng/mL.



Cytometric bead array standard curve of MP00678-3, RAT ICAM-1/CD54 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83696-3-PBS. Detection antibody: 83696-2-PBS. Standard: Eg1025. Range: 0.156-20 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 83696-3-RR against Mouse ICAM-1/CD54 were performed. The affinity constant is 1.09 nM.