

For Research Use Only

ICAM-1/CD54 Recombinant antibody

Catalog Number: 83696-3-RR



Basic Information

Catalog Number: 83696-3-RR	GenBank Accession Number: NM_012967.1	Purification Method: Protein A purification
Concentration: 1000 ug/ml	GeneID (NCBI): 25464	CloneNo.: 240725C2
Source: Rabbit	UNIPROT ID: Q00238	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:250-1:1000
Isotype: IgG	Full Name: intercellular adhesion molecule 1	
	Calculated MW: 60 kDa	
	Observed MW: 85 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Species Specificity: rat	WB : rat lung tissue, rat liver tissue, rat heart tissue, rat kidney tissue, rat spleen tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : rat liver tissue, rat lung tissue
	IF-P : rat liver tissue,

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- α , INF- γ , 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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

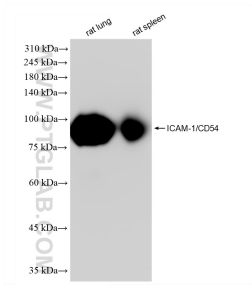
T: 4006900926

E: Proteintech-CN@ptglab.com

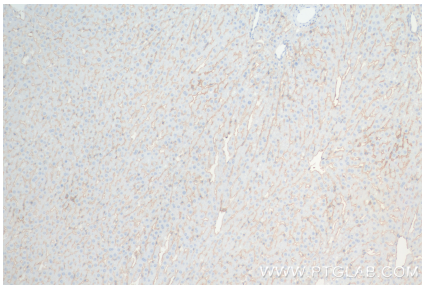
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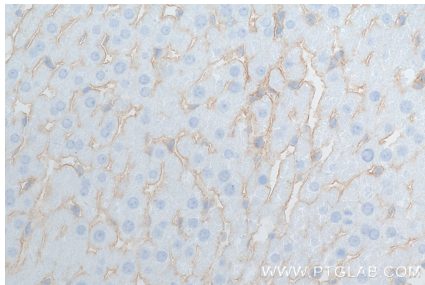
Selected Validation Data



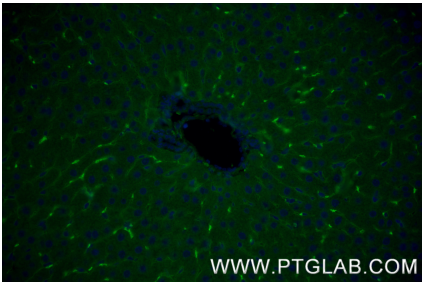
Various lysates were subjected to SDS PAGE followed by western blot with 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



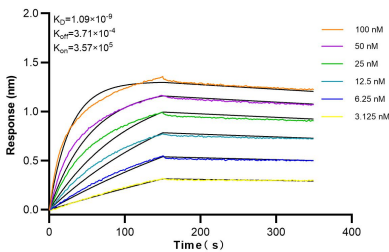
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat liver tissue using ICAM-1/CD54 antibody (83696-3-RR, Clone: 240725C2) 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).



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