

For Research Use Only

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

Catalog Number: 83696-3-PBS



Basic Information

Catalog Number: 83696-3-PBS	GenBank Accession Number: NM_012967.1	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 25464	CloneNo.: 240725C2
Source: Rabbit	UNIPROT ID: Q00238	
Isotype: IgG	Full Name: intercellular adhesion molecule 1	
	Calculated MW: 60 kDa	
	Observed MW: 85 kDa	

Applications

Tested Applications:
WB, IHC, IF-P, Cytometric bead array, Indirect ELISA

Species Specificity:
rat

Product Information

83696-3-PBS targets ICAM-1/CD54 as part of a matched antibody pair:

MP00678-1: 83696-3-PBS capture and 83696-1-PBS detection (validated in Cytometric bead array)

MP00678-3: 83696-3-PBS capture and 83696-2-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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

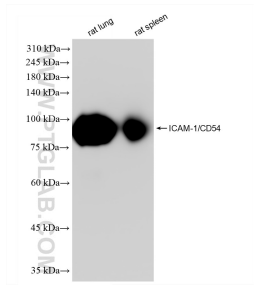
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

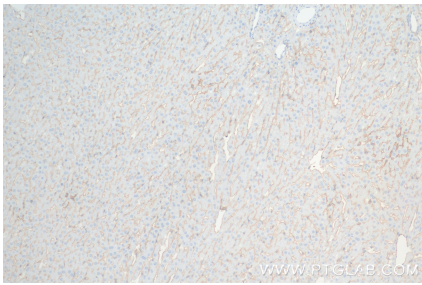
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

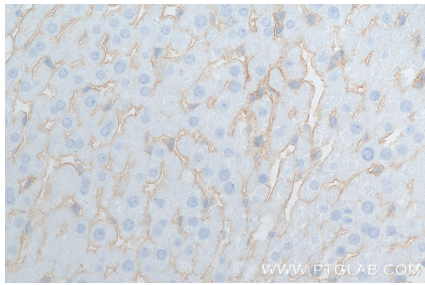
Selected Validation Data



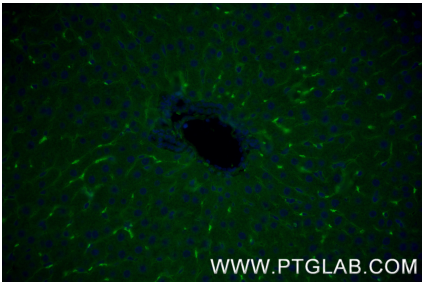
Various lysates were subjected to SDS PAGE followed by western blot with 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83696-3-PBS in a different storage buffer formulation.



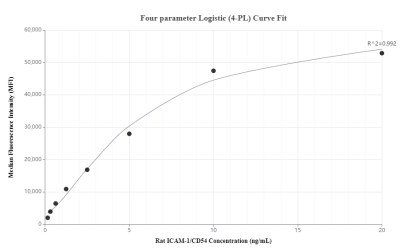
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83696-3-PBS in a different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



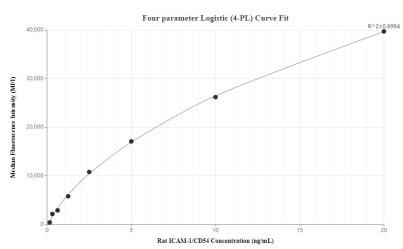
Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 83696-3-RR (ICAM-1/CD54 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83696-3-PBS in a different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



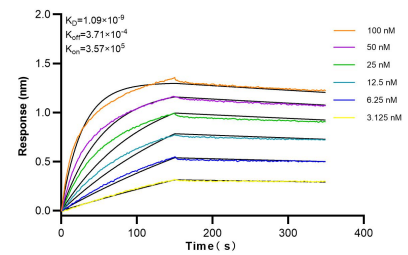
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded rat liver tissue using ICAM-1/CD54 antibody (83696-3-RR, Clone: 240725C2) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was 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.



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