

For Research Use Only

# ICAM-1/CD54 Polyclonal antibody

Catalog Number: 10020-1-AP

Featured Product

91 Publications



## Basic Information

### Catalog Number:

10020-1-AP

### Size:

150ul, Concentration: 4500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_010493

### GeneID (NCBI):

15894

### UNIPROT ID:

P13597

### Full Name:

intercellular adhesion molecule 1

### Calculated MW:

59 kDa

### Observed MW:

95-100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:3200-1:12800

IF-P: 1:500-1:2000

IF-Fro: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF-P, IF-Fro, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

mouse, rat

### Cited Species:

mouse, rat, bovine, hamster

### Positive Controls:

WB: mouse brain tissue, mouse spleen tissue, mouse liver tissue

IHC: mouse lung tissue, mouse liver tissue

IF-P: mouse liver tissue,

IF-Fro: mouse liver tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

ICAM-1 (Intercellular Adhesion Molecule-1, CD54) is a glycosylated, transmembrane protein, a member of Ig super family. This protein involves in cell adhesion by interacting with a number of 2 integrin family members such as LFA-1 and Mac-1. Its expression is regulated by chemokines. This antibody is raised against mouse ICAM-1, which has a calculated molecular mass of 59 kDa. The apparent molecular weight of ICAM-1 varies between 60 and 115 kDa, depending on the extent of glycosylation (PMID: 32182390; 10064885; 2571505).

## Notable Publications

Author	Pubmed ID	Journal	Application
Philipp-Sebastian Koch	34658910	Front Physiol	WB
Ye Tian	36212957	Evid Based Complement Alternat Med	IF
Linda Lorenz	30258227	Nature	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

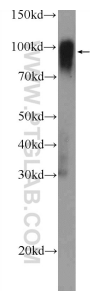
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

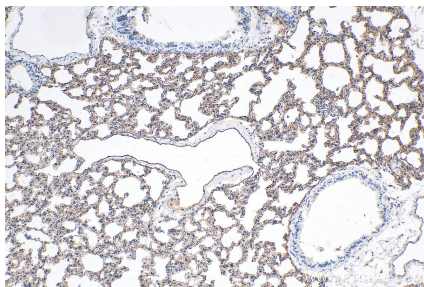
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

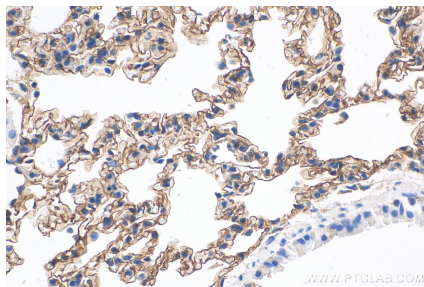
## Selected Validation Data



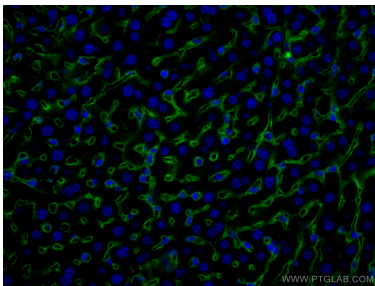
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10020-1-AP (Icam-1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



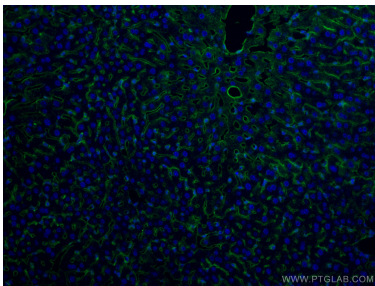
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10020-1-AP (Icam-1 antibody) at dilution of 1:6400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



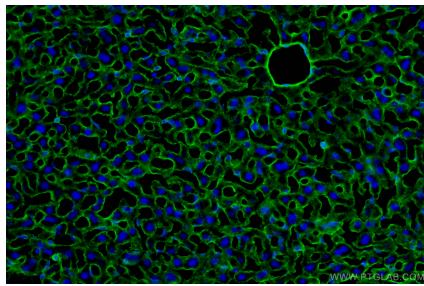
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10020-1-AP (Icam-1 antibody) at dilution of 1:6400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using Icam-1 antibody (10020-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse liver tissue using Icam-1 antibody (10020-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse liver tissue using 10020-1-AP (Icam-1 antibody) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).