

For Research Use Only

# ICAM-1/CD54 Polyclonal antibody

Catalog Number: 10020-1-AP

Featured Product

89 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

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

### 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,

## 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

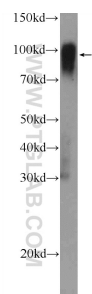
For technical support and original validation data for this product please contact:

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

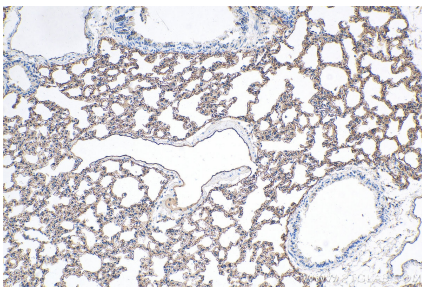
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

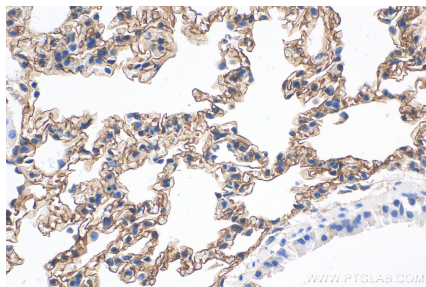
Selected Validation Data



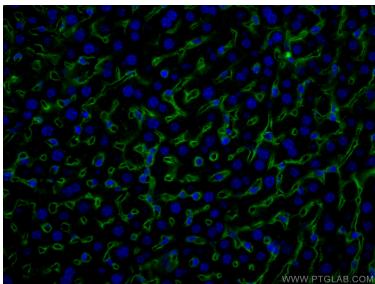
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10020-1-AP (Icam-1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



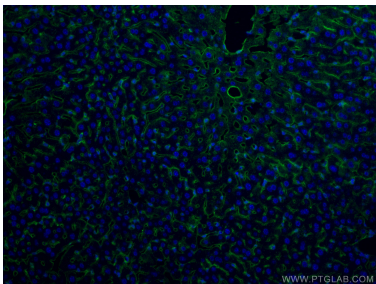
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10020-1-AP (Icam-1 antibody) at dilution of 1:6400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



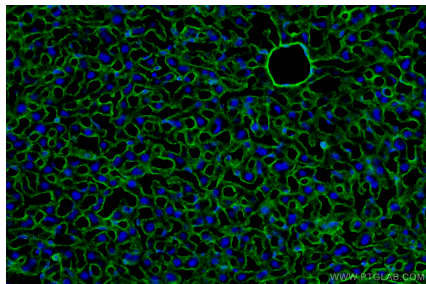
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 10020-1-AP (Icam-1 antibody) at dilution of 1:6400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).