

For Research Use Only

ICAM-1/CD54 Polyclonal antibody

Catalog Number: 16174-1-AP

25 Publications



Basic Information

Catalog Number:

16174-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

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:

90-110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:400-1:1600

IF-P 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : mouse lung tissue, mouse spleen tissue

IP : mouse spleen tissue,

IHC : mouse lung tissue,

IF-P : mouse lung tissue,

IF/ICC : 4T1 cells,

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), a member of Ig superfamily, is a glycosylated, transmembrane protein. This protein is involved in cell adhesion by interacting with a number of integrin family members such as LFA-1 and Mac-1. Its expression is regulated by chemokines. This protein migrates approximately 115 kDa on SDS gels. This antibody is specifically against mouse Icam-1.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-------------|-----------|--------------------|-------------|
| Jiajun Chen | 36367498 | Life Sci | WB, IHC |
| Junying Wei | 34867309 | Front Pharmacol | WB |
| Ya-Qun Zhou | 32203087 | Acta Pharmacol Sin | |

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

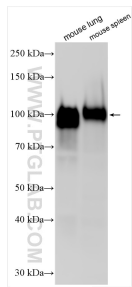
For technical support and original validation data for this product please contact:

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

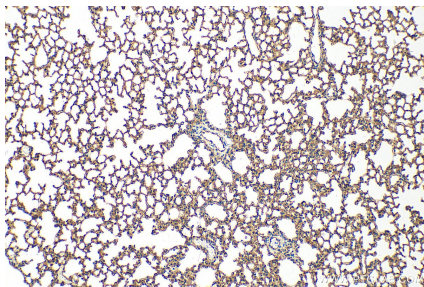
E: proteintech@ptglab.com
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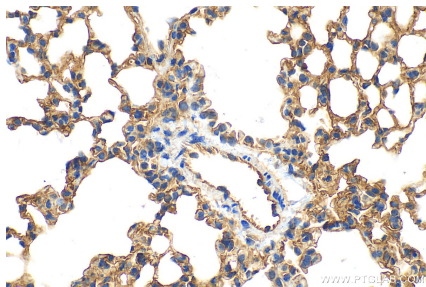
Selected Validation Data



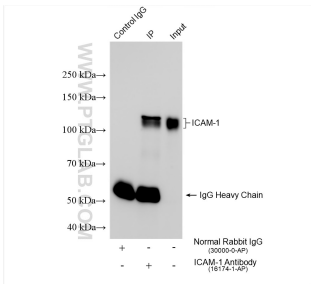
Various lysates were subjected to SDS PAGE followed by western blot with 16174-1-AP (ICAM-1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



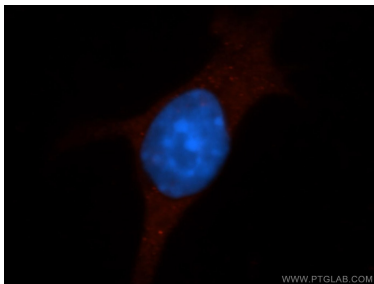
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 16174-1-AP (ICAM-1 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



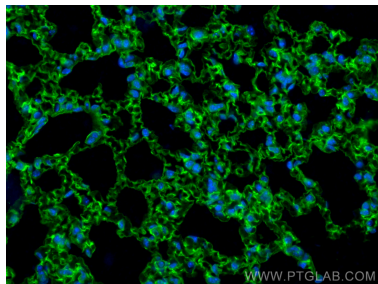
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 16174-1-AP (ICAM-1 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ICAM-1 (IP:16174-1-AP, 4ug; Detection:16174-1-AP 1:3000) with mouse spleen tissue lysate 1920 ug.



Immunofluorescent analysis 4T1 cells using 16174-1-AP (ICAM-1 antibody) at dilution of 1:50 and Rhodamine-Goat anti-Rabbit IgG.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse lung tissue using ICAM-1 antibody (16174-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).