

For Research Use Only

# ICAM-1/CD54 Polyclonal antibody

Catalog Number: 15364-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

15364-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 313 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8309

### GenBank Accession Number:

BC015969

### GeneID (NCBI):

3383

### ENSEMBL Gene ID:

ENSG00000090339

### UNIPROT ID:

P05362

### Full Name:

intercellular adhesion molecule 1

### Calculated MW:

90 kDa

### Observed MW:

85-95 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human, mouse

**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: HUVEC cells, Raji cells, HeLa cells, L02 cells

IP: Raji cells,

IHC: human colon cancer tissue, human heart tissue

## Background Information

ICAM-1 (CD54) is a 90-kDa 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- $\alpha$ , INF- $\gamma$ , 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).

## Notable Publications

| Author       | Pubmed ID | Journal                    | Application |
|--------------|-----------|----------------------------|-------------|
| Xuebing Shi  | 24535541  | J Mol Histol               | IHC         |
| Wenshuang Li | 25391245  | Curr Pharm Biotechnol      | WB          |
| Lin-Jie Ruan | 38502348  | Cancer Chemother Pharmacol | WB,IHC      |

## 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

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

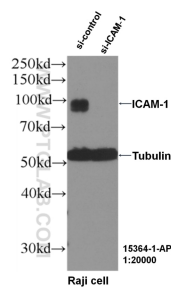
For technical support and original validation data for this product please contact:

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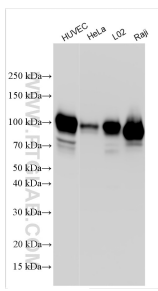
E: proteintech@ptglab.com  
W: ptglab.com

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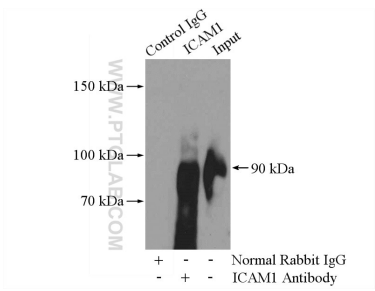
Selected Validation Data



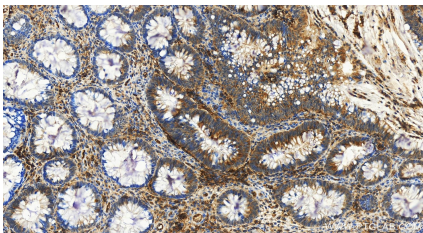
WB result of ICAM1 antibody (15364-1-AP, 1:20,000) with si-Control and si-ICAM1 transfected Raji cells. .



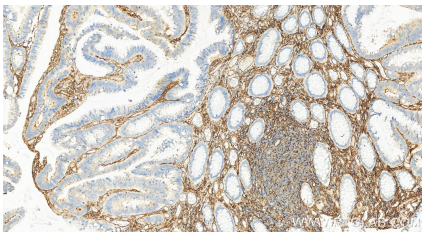
Various lysates were subjected to SDS PAGE followed by western blot with 15364-1-AP (ICAM-1/CD54 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-ICAM-1 (IP:15364-1-AP, 4ug; Detection:15364-1-AP 1:500) with Raji cells lysate 1520ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15364-1-AP (ICAM-1/CD54 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 15364-1-AP (ICAM-1/CD54 antibody) at dilution of 1:2000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).