

# ICAM-1/CD54 Polyclonal antibody

Catalog Number: 31451-1-AP

## Basic Information

**Catalog Number:**

31451-1-AP

**Size:**

300 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

NM\_012967.1

**GeneID (NCBI):**

25464

**UNIPROT ID:**

Q00238

**Full Name:**

intercellular adhesion molecule 1

**Calculated MW:**

60 kDa

**Observed MW:**

80-90 kDa

**Purification Method:**

Antigen affinity Purification

**Recommended Dilutions:**

WB 1:500-1:2000

IHC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, ELISA

**Species Specificity:**

mouse, rat

**Positive Controls:**

WB : rat spleen tissue,

IHC : rat lung tissue, mouse lung 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 (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- $\alpha$ , 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).

## Storage

**Storage:**

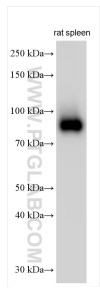
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

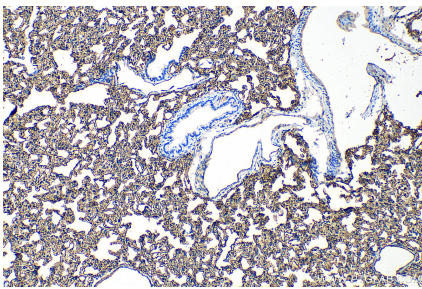
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

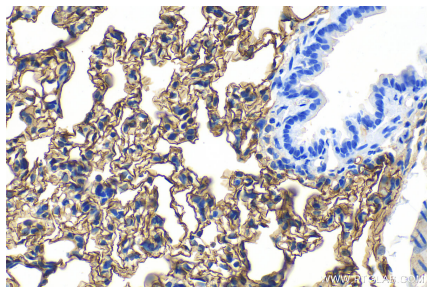
## Selected Validation Data



Rat spleen tissue was subjected to SDS PAGE followed by western blot with 31451-1-AP (ICAM-1/CD54 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 31451-1-AP (ICAM-1/CD54 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 31451-1-AP (ICAM-1/CD54 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).