

For Research Use Only

# ICAM-1/CD54 Polyclonal antibody

Catalog Number: 10831-1-AP

Featured Product

191 Publications



## Basic Information

Catalog Number:

10831-1-AP

Concentration:

900 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1188

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:

90-100 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:5000-1:50000

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

IHC: 1:5000-1:20000

IF-P: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, Blocking

Species Specificity:

human

Cited Species:

human, pig, bovine

**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, L02 cells

IP: Raji cells,

IHC: human tonsillitis tissue, human lung cancer tissue

IF-P: human tonsillitis 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
Yuxin Xie	33335794	Mol Ther Nucleic Acids	WB
Xinyu Zhu	36103933	Eur J Pharmacol	WB
Xiaohui Zhou	32935825	Clinics (Sao Paulo)	WB

## 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

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

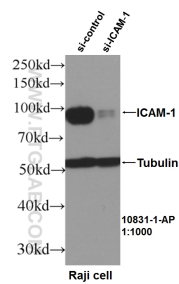
T: 4006900926

E: Proteintech-CN@ptglab.com

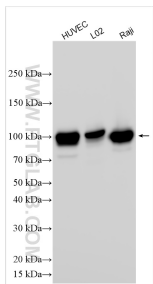
W: ptgcn.com

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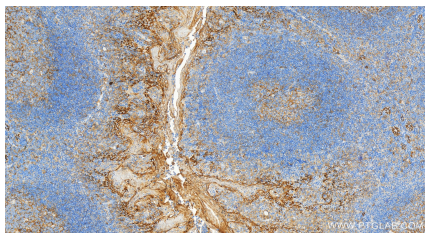
Selected Validation Data



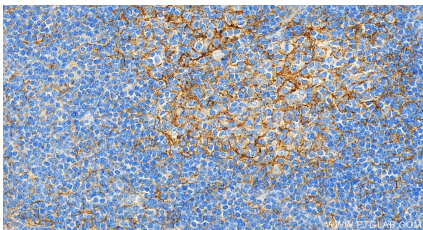
WB result of ICAM1 antibody (10831-1-AP, 1:1000) with si-Control and si-ICAM1 transfected Raji cells..



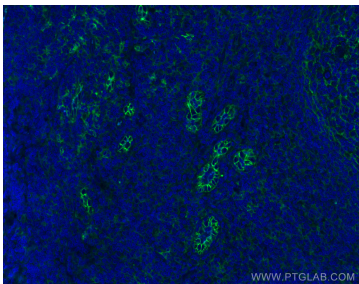
Various lysates were subjected to SDS PAGE followed by western blot with 10831-1-AP (ICAM-1/CD54 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



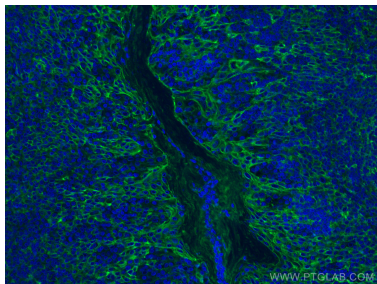
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10831-1-AP (ICAM-1/CD54 antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



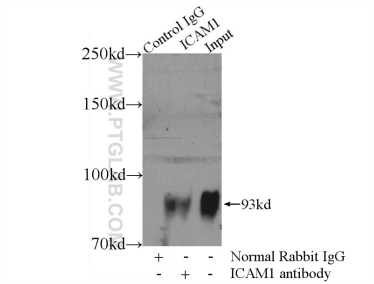
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 10831-1-AP (ICAM-1/CD54 antibody) at dilution of 1:10000 (under 20x lens). Heat mediated antigen retrieval with Sodium Citrate buffer (pH 6.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using ICAM-1/CD54 antibody (10831-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using ICAM-1/CD54 antibody (10831-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ICAM-1 (IP:10831-1-AP, 4ug; Detection:10831-1-AP 1:1000) with Raji cells lysate 1320ug.