

For Research Use Only

# ICAM-1/CD54 Monoclonal antibody

Catalog Number: 60299-1-Ig

Featured Product

56 Publications



## Basic Information

Catalog Number:

60299-1-Ig

Size:

150ul, Concentration: 1600 ug/ml by Nanodrop and 700 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2b

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:

Protein A purification

CloneNo.:

2F9A8

Recommended Dilutions:

WB: 1:5000-1:50000

IHC: 1:50-1:500

IF-P: 1:200-1:800

IF/ICC: 1:400-1:1600

## Applications

Tested Applications:

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

Cited Applications:

WB, IHC, IF

Species Specificity:

human

Cited Species:

human

**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: L02 cells, Daudi cells, HeLa cells, Raji cells, Ramos cells, HepG2 cells

IHC: human tonsillitis tissue,

IF-P: human tonsillitis tissue, human lung cancer tissue

IF/ICC: Raji cells,

## 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
Zhuqing Li	34607159	Redox Biol	IF
Yisong Qian	34549987	J Virol	WB
Tong Lin	33002827	Phytomedicine	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

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

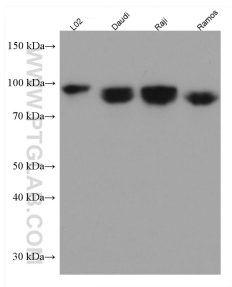
For technical support and original validation data for this product please contact:

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

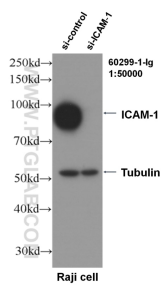
E: proteintech@ptglab.com  
W: ptglab.com

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

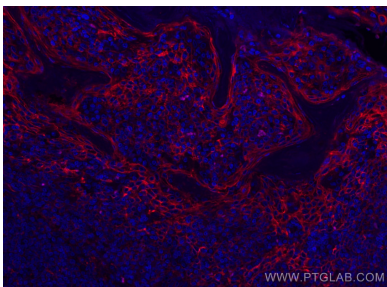
Selected Validation Data



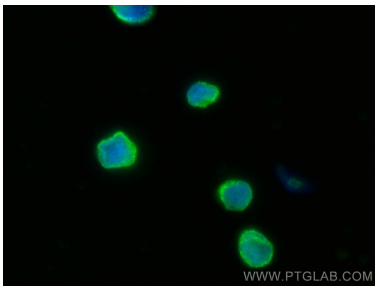
Various lysates were subjected to SDS PAGE followed by western blot with 60299-1-Ig (ICAM-1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



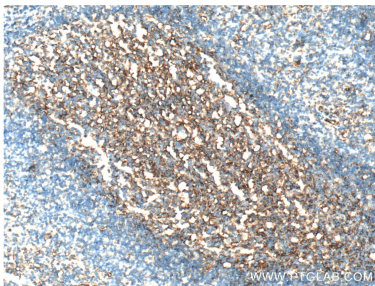
WB result of ICAM1 antibody (60299-1-Ig, 1:50,000) with si-Control and si-ICAM1 transfected Raji cells.



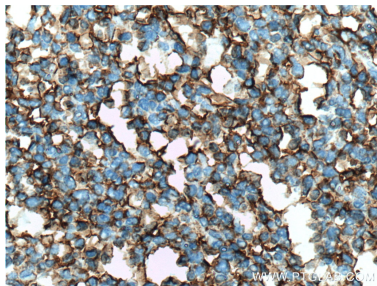
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded human tonsillitis tissue using ICAM-1/CD54 antibody (60299-1-Ig, Clone: 2F9A8 ) at dilution of 1:400 and Cy3-conjugated Goat Anti-Mouse IgG(H+L) (SA00009-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Raji cells using ICAM-1 antibody (60299-1-Ig, Clone: 2F9A8 ) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60299-1-Ig (ICAM-1 Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60299-1-Ig (ICAM-1 Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).