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# ICAM-1/CD54 Rabbit mAb

**Catalog No.: A25857** Recombinant

## Basic Information

**Observed MW**
95kDa

**Calculated MW**
60kDa

**Category**
Primary antibody

**Applications**
ELISA,WB,IHC-P,IF/ICC,FC

**Cross-Reactivity**
Mouse, Rat

**CloneNo number**
ARC66078

## Background

Enables integrin binding activity. Involved in several processes, including cellular response to cytokine stimulus; cellular response to lipid; and gonad development. Located in cell surface; extracellular space; and plasma membrane. Used to study diabetic angiopathy; mesenteric vascular occlusion; nephritis; pre-eclampsia; and uveitis. Biomarker of several diseases, including cerebrovascular disease (multiple); colitis (multiple); kidney failure (multiple); lung disease (multiple); and pancreatitis (multiple). Human ortholog(s) of this gene implicated in several diseases, including autoimmune disease (multiple); biliary atresia; diabetic retinopathy; inflammatory bowel disease (multiple); and liver cirrhosis. Orthologous to human ICAM1 (intercellular adhesion molecule 1).

## Recommended Dilutions

| | |
|---|---|
| **WB** | 1:2000 - 1:6000 |
| **IHC-P** | 1:50 - 1:200 |
| **IF/ICC** | 1:50 - 1:200 |
| **FC** | 1:500 - 1:1000 |

## Immunogen Information

**Gene ID**
25464

**Swiss Prot**
Q00238

**Immunogen**
Recombinant fusion protein containing a sequence corresponding to amino acids 28-493 of rat ICAM-1/CD54 (NP_037099.1).

**Synonyms**
CD54; ICAM

## Contact


400-999-6126

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## Product Information

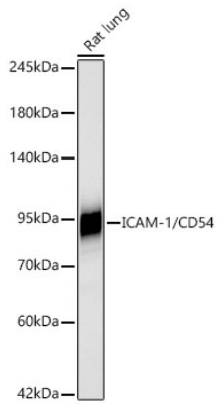
**Source**
Rabbit

**Isotype**
IgG

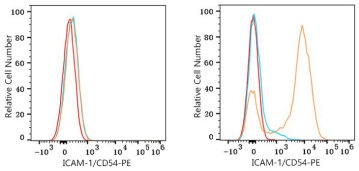
**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

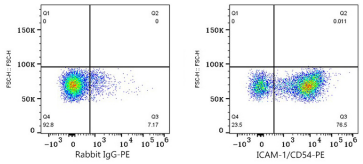
## Validation Data



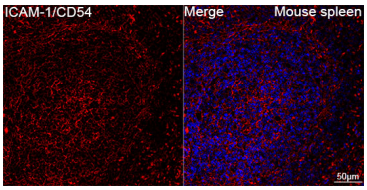

Western blot analysis of lysates from Rat lung using ICAM-1/CD54 Rabbit mAb (A25857) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



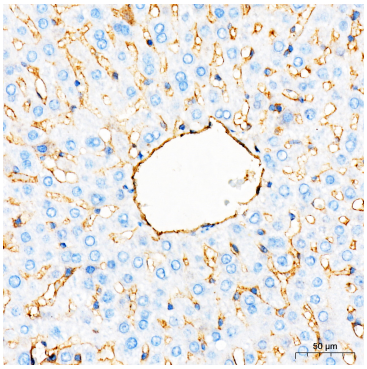

Flow cytometry: 1X10^6 293T cells (negative control,left) and Rat splenocytes (right) were surface-stained with ICAM-1/CD54 Rabbit mAb (A25857,2 µg/mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by PE Donkey anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



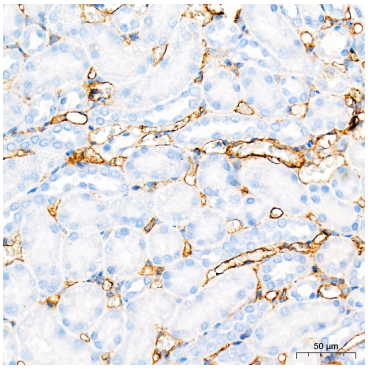

Flow cytometry: 1X10^6 Rat splenocytes were surface-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or ICAM-1/CD54 Rabbit mAb (A25857,2 µg/mL,right), followed by PE Donkey anti-rabbit pAb staining.




Confocal imaging of paraffin-embedded Mouse spleen tissue using ICAM-1/CD54 Rabbit mAb (A25857, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.




Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using ICAM-1/CD54 Rabbit mAb (A25857) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.




Immunohistochemistry analysis of paraffin-embedded Rat kidney tissue using ICAM-1/CD54 Rabbit mAb (A25857) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.