

ICAM-1/CD54 Rabbit mAb

Catalog No.: A25857 **Recombinant**

Basic Information

Observed MW

95kDa

Calculated MW

60kDa

Category

Primary antibody

Applications

WB,IHC-P,FC,ELISA

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 1:5000 - 1:20000

IHC-P 1:200 - 1:800

FC 1:500 - 1:1000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

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

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Product Information

Source

Rabbit

Isotype

IgG

Purification

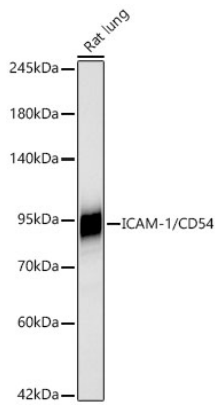
Affinity purification

Storage

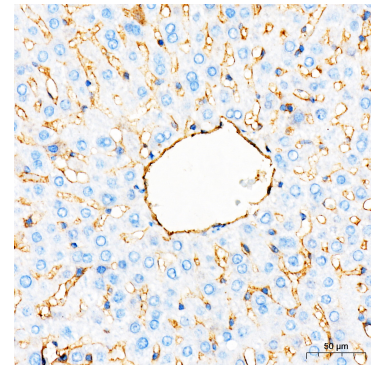
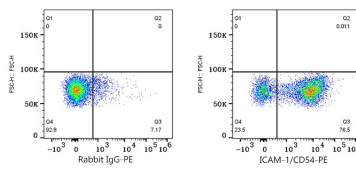
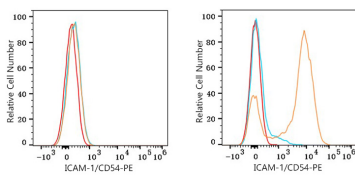
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data



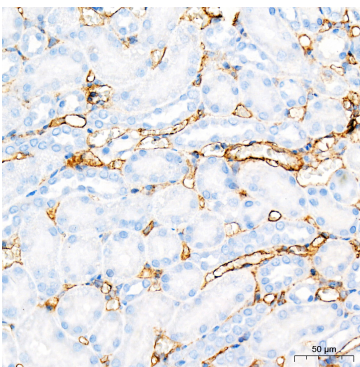
Western blot analysis of lysates from Rat lung using ICAM-1/CD54 Rabbit mAb (A25857) at 1:5000 dilution incubated overnight at 4°C.
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
 Lysates/proteins: 25 µg per lane.
 Blocking buffer: 3% nonfat dry milk in TBST.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



Flow cytometry: 1×10^6 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: 1×10^6 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.

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 Bufferr (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 Bufferr (pH 6.0) prior to IHC staining.