

VCAM1 Rabbit mAb

Catalog No.: A29183 **Recombinant**

Basic Information

Observed MW

100 kDa

Calculated MW

71-81 kDa

Category

Primary antibody

Applications

WB,IP,IF-F,IF-P,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC3457

Background

This gene is a member of the Ig superfamily and encodes a cell surface sialoglycoprotein expressed by cytokine-activated endothelium. This type I membrane protein mediates leukocyte-endothelial cell adhesion and signal transduction, and may play a role in the development of atherosclerosis and rheumatoid arthritis. Three alternatively spliced transcripts encoding different isoforms have been described for this gene.

Recommended Dilutions

WB 1:10000 - 1:20000

IP 0.5 µg - 4 µg antibody for
400 µg - 600 µg extracts of
whole cells

IF-F 1:200 - 1:400

IF-P 1:200 - 1:400

IHC-P 1:400 - 1:1600

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.
For high-ratio antibody
dilutions ($\geq 1:10000$) a
sequential dilution method
is strongly recommended to
ensure measurement
accuracy.

Immunogen Information

Gene ID

7412

Swiss Prot

P19320

Immunogen

This information is considered to be commercially sensitive.

Synonyms

CD106; INCAM-100

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

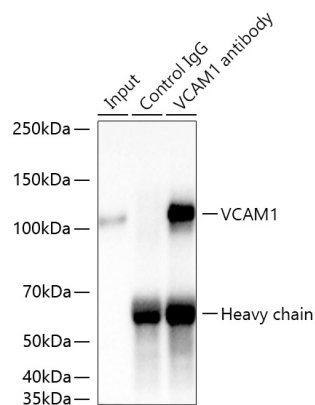
Contact

☎ | 400-999-6126

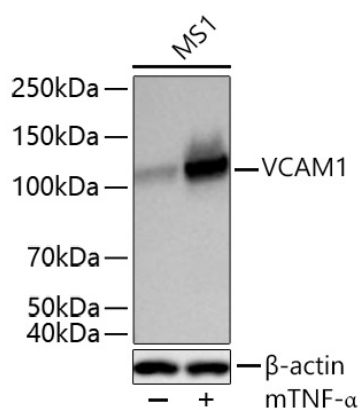
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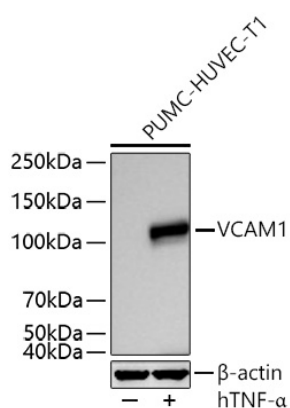
Validation Data



Immunoprecipitation of VCAM1 from 400 µg extracts of Rat spleen tissue was performed using 1 µg of VCAM1 Rabbit mAb (A29183). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using VCAM1 Rabbit mAb (A29183) at a dilution of 1:20000.

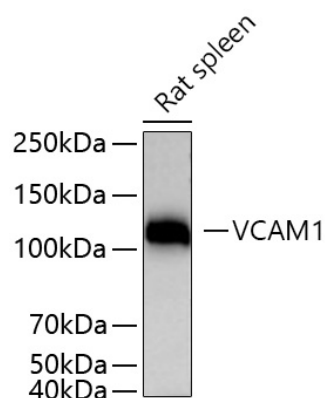


Western blot analysis of lysates from MS1 cells using VCAM1 Rabbit mAb (A29183) at 1:20000 dilution incubated overnight at 4°C. MS1 cells were treated with mTNF-α (20 ng/mL) at 37°C for 16 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1 s.



Western blot analysis of lysates from PUMC-HUVEC-T1 cells using VCAM1 Rabbit mAb (A29183) at 1:20000 dilution incubated overnight at 4°C. PUMC-HUVEC-T1 cells were treated with hTNF-α (10 ng/mL) at 37°C for 16 hours. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 30 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 45 s.

Validation Data



Western blot analysis of lysates from Rat spleen using VCAM1 Rabbit mAb (A29183) at 1:20000 dilution incubated overnight at 4°C.

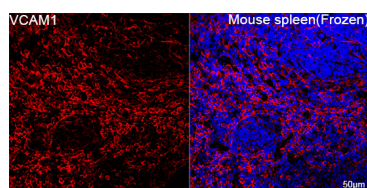
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

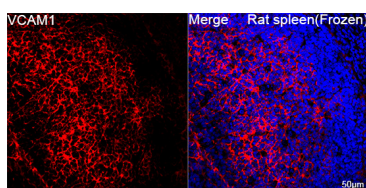
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

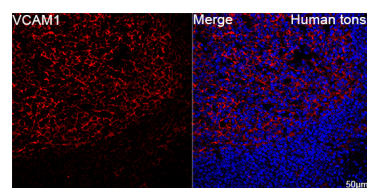
Exposure time: 45 s.



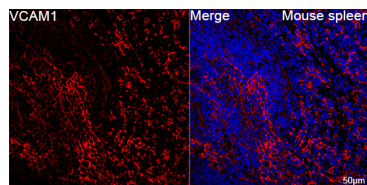
Confocal imaging of frozen sections of Mouse spleen tissue using VCAM1 Rabbit mAb (A29183, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



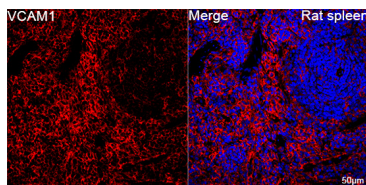
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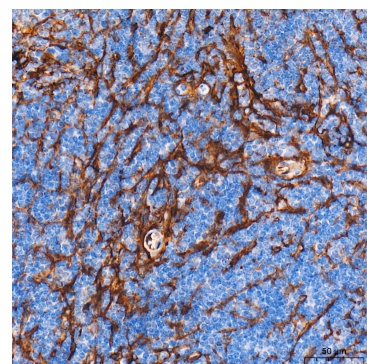
Confocal imaging of paraffin-embedded Human tonsil tissue using VCAM1 Rabbit mAb (A29183, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of paraffin-embedded Mouse spleen tissue using VCAM1 Rabbit mAb (A29183, dilution 1:200) followed by a further incubation with Cy3-conjugated 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.

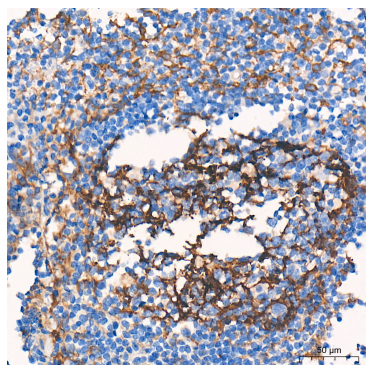


Confocal imaging of paraffin-embedded Rat spleen tissue using VCAM1 Rabbit mAb (A29183, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.

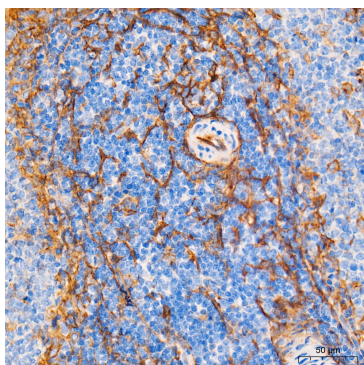


Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using VCAM1 Rabbit mAb (A29183) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using VCAM1 Rabbit mAb (A29183) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat spleen tissue using VCAM1 Rabbit mAb (A29183) at a dilution of 1:400 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.