

VCAM-1 Monoclonal Antibody (1.4C3)

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Rat, Human
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	1.4C3
Conjugate	Unconjugated
Immunogen	Stimulated human umbilical vein endothelial cells (HUVEC)
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10979792

Applications	Tested	Dilution	Published
Immunofluorescence (IF)	✓	1:10-1:100	1 Publication
Immunohistochemistry (IHC)	-	1:100	2 Publications
Immunocytochemistry (ICC)	✓	1:10-1:100	1 Publication
Flow Cytometry (Flow)	-		1 Publication
Immunohistochemistry (Frozen) (IHC (F))	✓	1:12.5-1:25	
Immunohistochemistry (Paraffin) (IHC (P))	✓	1:12.5-1:25	

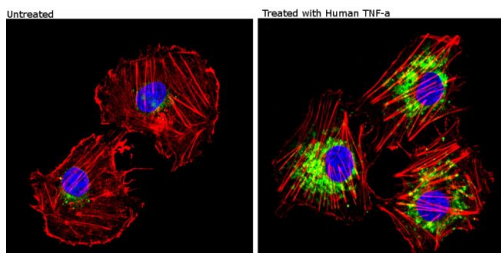
Product Specific Information

MA5-11447 targets CD106 in IHC (P, F) and ICC/IF applications and shows reactivity with Human samples.

The MA5-11447 immunogen is stimulated human umbilical vein endothelial cells (HUVEC).

MA5-11447 has been successfully used in immunohistochemistry analysis of VCAM1 in mouse E16.5 frozen lung sections.

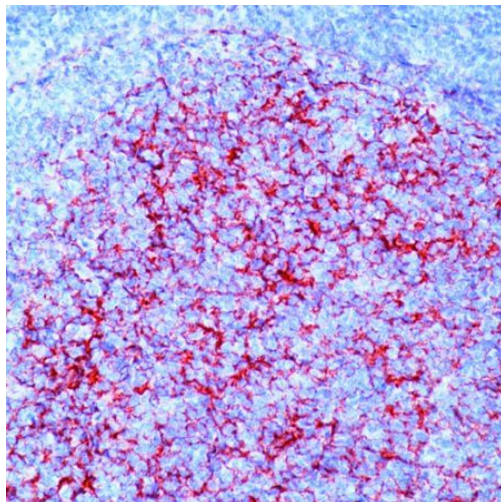
Advanced Verification Data



VCAM-1 Antibody (MA5-11447)

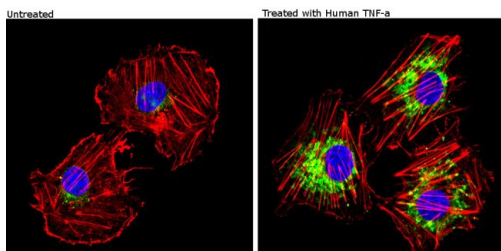
Modulation of target protein phosphorylation by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of VCAM-1 using VCAM-1 Antibody (Product # MA5-11447) shows induced expression of VCAM-1 in the HUVEC cells upon TNF-alpha treatment. Cell Treatment validation info.

Product Images For VCAM-1 Monoclonal Antibody (1.4C3)



VCAM-1 Antibody (MA5-11447) in IHC

Formalin-fixed, paraffin-embedded human tonsil stained with CD106 antibody using peroxidase-conjugate and AEC chromogen. Note membrane staining of hematopoietic cells in germinal center.



VCAM-1 Antibody (MA5-11447) in IF

Immunofluorescent analysis of CD106 (green) showing staining in the cytoplasm of HUVEC cells treated with human TNF-alpha (right) compared to untreated HUVEC cells (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a CD106 monoclonal antibody (Product # MA5-11447) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI. Images were taken at a magnification of 60x.

[View more figures on thermofisher.com](https://www.thermofisher.com)

5 References

Immunofluorescence (1)

Theranostics

Follicular Stimulating Hormone Accelerates Atherogenesis by Increasing Endothelial VCAM-1 Expression.

"Published figure using VCAM-1 monoclonal antibody (Product # MA5-11447) in Immunofluorescence"

Authors: Li X, Chen W, Li P, Wei J, Cheng Y, Liu P, Yan Q, Xu X, Cui Y, Gu Z, Simoncini T, Fu X

Species
Not Applicable

Dilution
Not Cited

Year
2018

Immunohistochemistry (2)

European journal of cardio-thoracic surgery : official journal of the European Association for Cardio-thoracic Surgery

Inhibition of cell surface expression of endothelial adhesion molecules by ursolic acid prevents intimal hyperplasia of venous bypass grafts in rats.

"MA5-11447 was used in immunohistochemistry to study the role of reduced endothelial VCAM-1 expression in the mechanism by which ursolic acid prevents intimal hyperplasia in a rat model of venous bypass graft"

Authors: Zeller I, Wiedemann D, Schwaiger S, Stelzmüller M, Kreutmayer S, Leberfing O, Stuppner H, Bernhard D

Species
Rat

Dilution
1:100

Year
2012

Leukemia and lymphoma

Immunophenotypic profile and role of adhesion molecules in splenic marginal zone lymphoma with bone marrow involvement.

"MA5-11447 was used in immunohistochemistry to study the distribution and function of adhesion molecules in splenic marginal zone lymphoma"

Authors: Florena AM, Tripodo C, Porcasi R, Ingrao S, Fadda MR, De Cantis S, Iannitto E, Franco V

Species
Human

Dilution
1:50

Year
2006

Immunocytochemistry (1)

Journal of ethnopharmacology

Identification and pharmacological characterization of the anti-inflammatory principal of the leaves of dwarf elder (*Sambucus ebulus* L.).

"MA5-11447 was used in immunocytochemistry to identify and study the active anti-inflammatory component of dwarf elder leaves"

Authors: Schwaiger S, Zeller I, Pölzelbauer P, Frotschnig S, Laufer G, Messner B, Pieri V, Stuppner H, Bernhard D

Species
Human

Dilution
0.2 ug/ml

Year
2011

More applications with references on thermofisher.com

Flow (1)

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