

CD106 (VCAM-1) Monoclonal Antibody (STA), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	STA
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467422

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunofluorescence (IF)	-	2 Publications
Immunoprecipitation (IP)	-	1 Publication
Western Blot (WB)	-	1 Publication

Product Specific Information

Description: The STA monoclonal antibody reacts with human CD106 (Vascular Cell Adhesion Molecule-1, VCAM-1), a 110 kDa transmembrane glycoprotein expressed by myeloid lineage and bone marrow stromal cells. Endothelial cells constitutively express low levels of CD106 and upregulate it upon cytokine stimulation. CD106 binds to Integrin alpha4beta1 (VLA-4, CD49d/CD29) and Integrin alpha4beta7 (LPAM-1). Cytokine-mediated upregulation of CD106 on endothelial cells suggests a role for this antigen in the inflammatory response.

Applications Reported: STA has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections.

Applications Tested: The STA antibody has been tested by flow cytometric analysis of TNF alpha-activated HUVEC cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

10 References

Western Blot (1)

PloS one

Cytokine induction of VCAM-1 but not IL13R2 on glioma cells: a tale of two antibodies.

"Published figure using CD106 (VCAM-1) monoclonal antibody (Product # 14-1069-82) in Flow Cytometry"

Authors: Mahadev V, Starr R, Wright SL, Martinez C, Jensen MC, Barish ME, Forman SJ, Brown CE

Species
Human

Dilution
Not Cited

Year
2014

Immunofluorescence (2)

Nature communications

The critical role of SENP1-mediated GATA2 deSUMOylation in promoting endothelial activation in graft arteriosclerosis.

"Published figure using CD106 (VCAM-1) monoclonal antibody (Product # 14-1069-82) in Immunofluorescence"

Authors: Qiu C, Wang Y, Zhao H, Qin L, Shi Y, Zhu X, Song L, Zhou X, Chen J, Zhou H, Zhang H, Tellides G, Min W, Yu L

Species
Not Applicable

Dilution
Not Cited

Year
2017

Microbial pathogenesis

Effects of Aggregatibacter actinomycetemcomitans leukotoxin on endothelial cells.

"Published figure using CD106 (VCAM-1) monoclonal antibody (Product # 14-1069-82) in Immunofluorescence"

Authors: Dietmann A, Millonig A, Combes V, Couraud PO, Kachlany SC, Grau GE

Species
Human

Dilution
Not Cited

Year
2014

Flow Cytometry (6)

PloS one

Cytokine induction of VCAM-1 but not IL13R2 on glioma cells: a tale of two antibodies.

"Published figure using CD106 (VCAM-1) monoclonal antibody (Product # 14-1069-82) in Flow Cytometry"

Authors: Mahadev V, Starr R, Wright SL, Martinez C, Jensen MC, Barish ME, Forman SJ, Brown CE

Species
Human

Dilution
Not Cited

Year
2014

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

IP (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.