

Product Datasheet

VCAM-1/CD106 Antibody (1.G11B1) - Azide and BSA Free NBP1-28404

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NBP1-28404

VCAM-1/CD106 Antibody (1.G11B1) - Azide and BSA Free

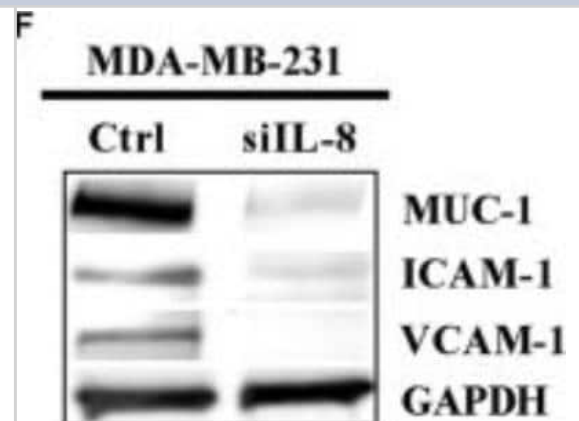
Product Information	
Unit Size	0.1 mg
Concentration	0.1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	1.G11B1
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	Borate buffered saline, pH 8.2

Product Description	
Description	Novus Biologicals Mouse VCAM-1/CD106 Antibody (1.G11B1) - Azide and BSA Free (NBP1-28404) is a monoclonal antibody validated for use in IHC, WB and Flow. Anti-VCAM-1/CD106 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	7412
Gene Symbol	VCAM1
Species	Human, Porcine
Reactivity Notes	Porcine reactivity reported from a verified customer review.
Specificity/Sensitivity	Human CD106/VCAM-1
Immunogen	The immunogen is a peptide made to the amino acid region VCAM1

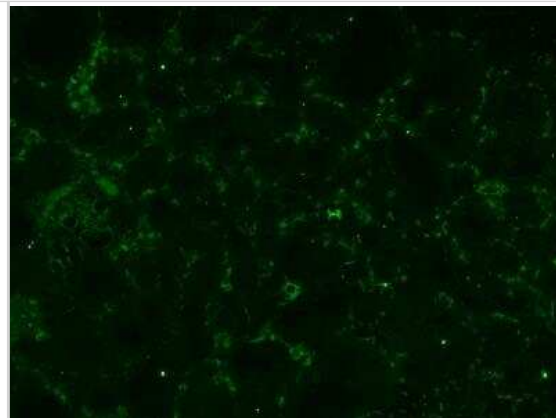
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry
Recommended Dilutions	Western Blot 1:100 - 1:2000, Flow Cytometry 1 ug/10 ⁶ cells, Immunohistochemistry, Immunohistochemistry-Paraffin Validated from a verified customer review

Images

Western Blot: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Western blot analysis of MDA-MB-231 cells transfected with/without an IL-8 silencer RNA (siIL-8) to evaluate the expression of MUC-1, VCAM-1 (NBP1-28404), and ICAM-1 (NBP2-22541). GAPDH load control was reused for illustrative purposes. Image collected and cropped by CiteAb from the following publication ([frontiersin.org/article/10.3389/fimmu.2018.01767/full](https://www.frontiersin.org/article/10.3389/fimmu.2018.01767/full)), licensed under a CC-BY license.



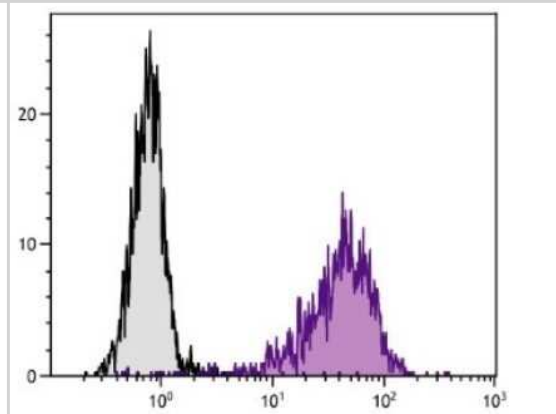
Immunohistochemistry-Paraffin: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Veins and venules in the interalveolar stroma of porcine mammary gland are positive for the human VCAM-1. Antigen retrieval by Proteinase K. AlexaFluor 488 anti-mouse antibody was used as a secondary detection antibody. Image from verified customer review.



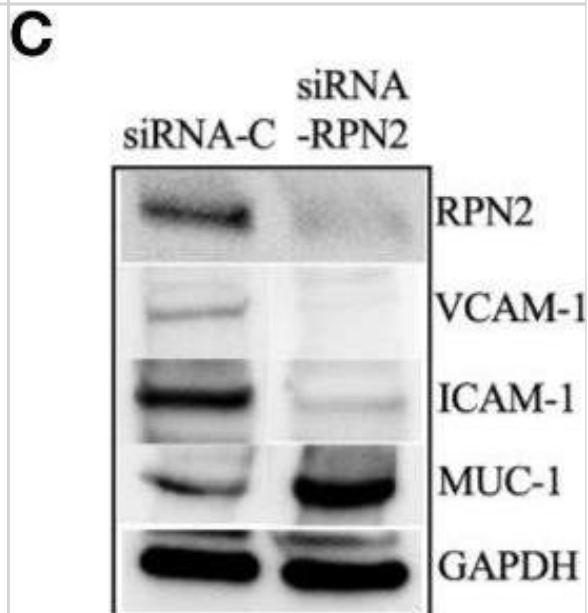
Flow Cytometry: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - TNF alpha stimulated human endothelial cell line HUV-EC-C was stained with Mouse Anti-Human CD106-UNLB followed by Goat Anti-Mouse IgG1, Human ads-FITC.



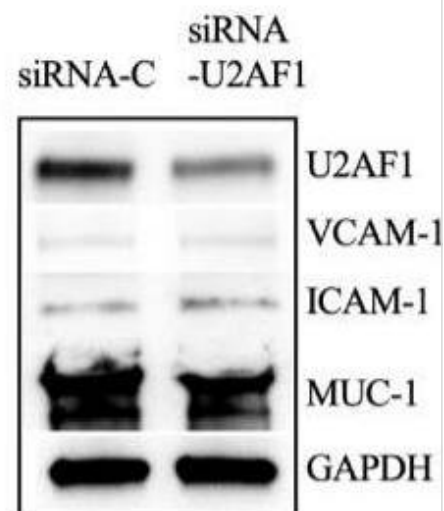
Flow Cytometry: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Analysis using the FITC conjugate of NBP1-28404. Staining of TNF alpha stimulated endothelial cell line HUV-EC-C.



Western Blot: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Knockdown of RPN2 decreased luminal B BC cell dissemination in vivo. Luminal B ER+ T47D cells, transfected with negative control siRNA (siRNA-C) or siRNA targeting RPN2 (siRNA-RPN2) were injected + estradiol (E2) ± neutrophils (Neu) into zebrafish transgenic embryos with green fluorescent blood vessels & analyzed as described in materials & methods. (A) Migration in vitro (n = 6). (B) In vivo dissemination of transfected T47D in presence of E2 ± Neu (n = 23–26). Scale bar = 100 μm. (n = 23–26). (C) Western blot analysis for confirmation of siRNA-RPN2 transfection & VCAM-1, ICAM-1, & MUC-1 expression. (D) Focal adhesions area (n = 5–6). Scale bar = 10 μm. (E) Proliferation (n = 6). Representative images of zebrafish embryos with disseminated luminal B T47D BC cells & immunocytochemistry analysis of vinculin expression are shown. Arrows show disseminated T47D & arrowheads show focal adhesions. BV = blood vessels. Data are presented as mean ± SEM. Two-tailed Student's t-test *P < 0.05, ***P < 0.001, ns, not significant. Data are represented of at least two independent experiments. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33330095>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Knockdown of U2AF1 decreased luminal A BC cell dissemination in vivo. Luminal A ER+ MCF-7 cells, transfected with negative control siRNA (siRNA-C) or siRNA targeting U2AF1 (siRNA-U2AF1) were injected in presence of estradiol (E2) ± neutrophils (Neu) into zebrafish transgenic embryos, with green fluorescent blood vessels, & analyzed as described in materials & methods. (A) Migration in vitro (n = 6–12). (B) In vivo dissemination in presence of E2 ± Neu (n = 38–41). Scale bar = 100 µm. (C) Western blot analysis for confirmation of siRNA-U2AF1 transfection & ICAM-1, VCAM-1, & MUC-1 expression. (D) Focal adhesion area (n = 7). Scale bar = 10 µm. (E) Proliferation in vitro (n = 12). Representative images of zebrafish embryos with disseminated MCF-7 cells & immunocytochemistry analysis of vinculin expression are shown. Arrows show disseminated MCF-7 cells & arrowheads show focal adhesions. BV = blood vessels. Data are presented as mean ± SEM. Two-tailed Student's t-test *P < 0.05, **P < 0.01, ns, not significant. Data are represented of at least two independent experiments. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/33330095>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

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Publications

Vazquez Rodriguez G, Abrahamsson A, Turkina MV, Dabrosin C. Lysine in Combination With Estradiol Promote Dissemination of Estrogen Receptor Positive Breast Cancer via Upregulation of U2AF1 and RPN2 Proteins *Frontiers in Oncology* 2020-11-30 [PMID: 33330095] (Western Blot, Human)

Vazquez Rodriguez G, Abrahamsson A, Jensen LDE et al. Adipocytes Promote Early Steps of Breast Cancer Cell Dissemination via Interleukin-8 *Front. Immunol* 2018-07-30 [PMID: 30105032] (WB, Human)

Details:

This citation used the Azide and BSA Free version of this antibody.



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Products Related to NBP1-28404

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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