

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	
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

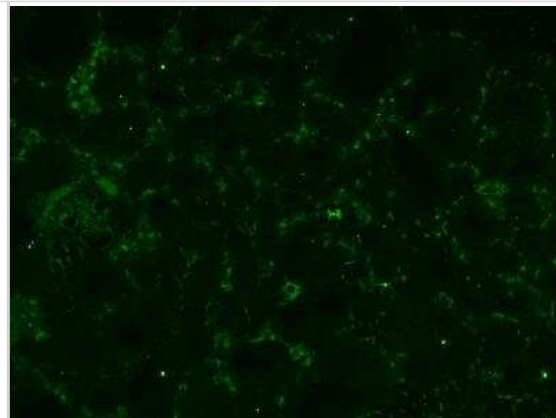
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100 - 1:2000, Flow Cytometry 1 ug/10 ⁶ cells, Immunohistochemistry, Immunohistochemistry-Paraffin Validated from a verified customer review

Images

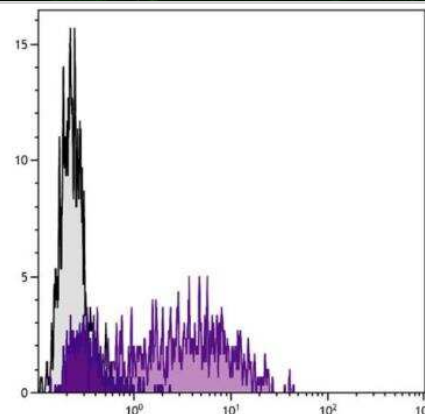
Western Blot: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Western blot analysis of MDA-MB-231 cells transfected with/without an IL-8 silencer RNA (siIL-8) to evaluate the expression of MUC-1, VCAM-1 (NBP1-28404), and ICAM-1 (NBP2-22541). GAPDH load control was reused for illustrative purposes. Image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



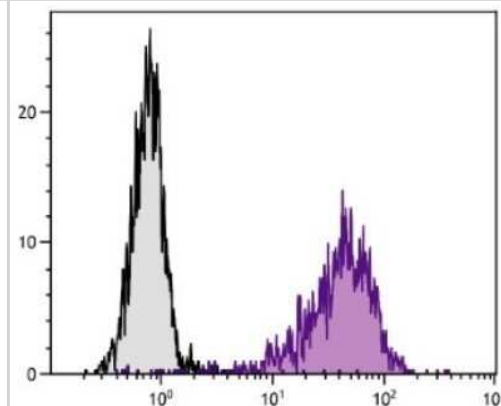
Immunohistochemistry-Paraffin: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Veins and venules in the interalveolar stroma of porcine mammary gland are positive for the human VCAM-1. Antigen retrieval by Proteinase K. AlexaFluor 488 anti-mouse antibody was used as a secondary detection antibody. Image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



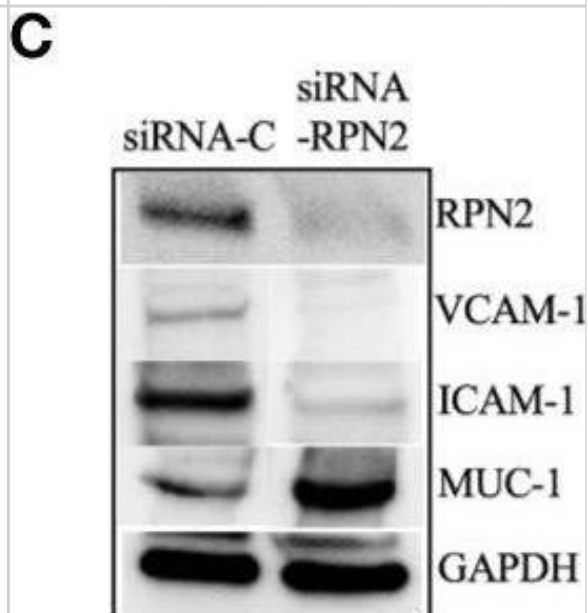
Flow Cytometry: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - TNF alpha stimulated human endothelial cell line HUV-EC-C was stained with Mouse Anti-Human CD106-UNLB followed by Goat Anti-Mouse IgG1, Human ads-FITC.



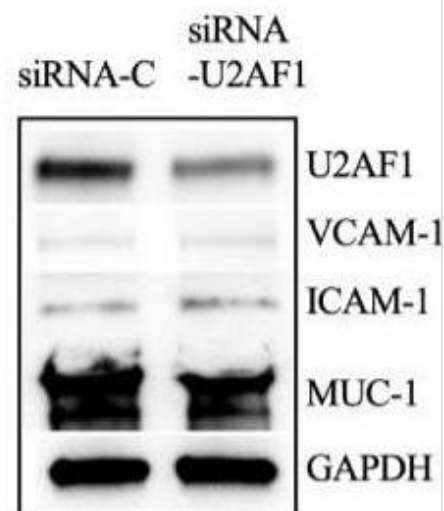
Flow Cytometry: VCAM-1/CD106 Antibody (1.G11B1) [NBP1-28404] - Analysis using the FITC conjugate of NBP1-28404. Staining of TNF alpha stimulated endothelial cell line HUV-EC-C.



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)

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

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-28406	VCAM-1/CD106 Antibody (1.G11B1) [Biotin]

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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