

# Product Datasheet

## CD31/PECAM-1 Antibody NB100-1642SS

Unit Size: 0.025 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**Publications: 14**

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Updated 6/15/2014 v.20.1

**NB100-1642SS****CD31/PECAM-1 Antibody (MEC 7.46)**

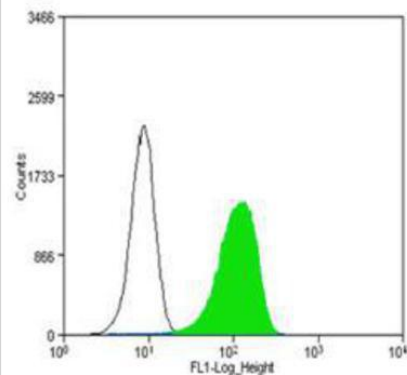
Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	MEC 7.46
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	Tris-glycine, 150 mM NaCl

Product Description	
Host	Rat
Gene ID	5175
Gene Symbol	PECAM1
Species	Mouse
Species Reactivity	Mouse.
Immunogen	mouse endothelial cell line T-end

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Flow Cytometry 1:10-1:1000, Immunohistochemistry-Frozen 1:100-1:500, Immunoprecipitation 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:100-1:500, Immunohistochemistry 1:100-1:500
Application Notes	This CD31/PECAM1 antibody (clone MEC 7.46) is useful for Immunoprecipitation, Immunohistochemistry on frozen sections, Flow Cytometry and Immunofluorescence.

**Images**

Flow Cytometry: CD31/PECAM1 Antibody (MEC 7.46) [NB100-1642] - CD31/PECAM1 (MEC 7.46) antibody was tested at 1:250 in WEHI-3 cells with DyLight 488 (green) alongside a matched isotype control (black).



## Publications

Burgi S, Seuwen A, Keist R et al. In Vivo Imaging of Hypoxia-Inducible Factor Regulation in a Subcutaneous and Orthotopic GL261 Glioma Tumor Model Using a Reporter Gene Assay. *Mol Imaging*. 2014 Sep 01 [PMID: 25248521]

Kalet BT, Anglin SR, Handschy A et al. Transcription Factor Ets1 Cooperates with Estrogen Receptor alpha to Stimulate Estradiol-Dependent Growth in Breast Cancer Cells and Tumors. *PLoS One* 2013 Jul 9 [PMID: 23874775] (ICC/IF, Mouse)

Westphal JR, van't Hullenaar RG, van der Laak JA, Cornelissen IM, Schalkwijk LJ, van Muijen GN, Wesseling P, de Wilde PC, Ruiter DJ, de Waal RM. Vascular density in melanoma xenografts correlates with vascular permeability factor expression but not with metastatic potential. *Br J Cancer*;76(5):561-70. 1997 [PMID: 9303353] (IHC, Mouse)

Lampugnani MG, Zanetti A, Breviario F, Balconi G, Orsenigo F, Corada M, Spagnuolo R, Betson M, Braga V, Dejana E. VE-cadherin regulates endothelial actin activating Rac and increasing membrane association of Tiam. *Mol Biol Cell*;13(4):1175-89. 2002 Apr. [PMID: 11950930] (ICC/IF, Mouse)

Zips D, Eicheler W, Bruchner K, Jackisch T, Geyer P, Petersen C, van der Kogel AJ, Baumann M. Impact of the tumour bed effect on microenvironment, radiobiological hypoxia and the outcome of fractionated radiotherapy of human FaDu squamous-cell carcinoma growing in the nude mouse. *Int J Radiat Biol*;77(12):1185-93. 2001 Dec. [PMID: 11747543]

Balconi G, Spagnuolo R, Dejana E. Development of endothelial cell lines from embryonic stem cells: A tool for studying genetically manipulated endothelial cells in vitro. *Arterioscler Thromb Vasc Biol*;20(6):1443-51. 2000 Jun. [PMID: 10845856] (FLOW, Mouse)

Bussink J, Kaanders JH, Rijken PF, Peters JP, Hodgkiss RJ, Marres HA, van der Kogel AJ. Vascular architecture and microenvironmental parameters in human squamous cell carcinoma xenografts: effects of carbogen and nicotinamide. *Radiother Oncol*;50(2):173-84. 1999 Feb. [PMID: 10368041]

Dong QG, Bernasconi S, Lostaglio S, De Calmanovici RW, Martin-Padura I, Breviario F, Garlanda C, Ramponi S, Mantovani A, Vecchi A. A general strategy for isolation of endothelial cells from murine tissues. Characterization of two endothelial cell lines from the murine lung and subcutaneous sponge implants. *Arterioscler Thromb Vasc Biol*;17(8):1599-604. 1997 Aug. [PMID: 9301641] (FLOW, Mouse)

Potgens AJ, van Altena MC, Lubsen NH, Ruiter DJ, de Waal RM. Analysis of the tumor vasculature and metastatic behavior of xenografts of human melanoma cell lines transfected with vascular permeability factor. *Am J Pathol*;148(4):1203-17. 1996 Apr. [PMID: 8644861] (IHC-Fr, Mouse)

Vecchi A, Garlanda C, Lampugnani MG, Resnati M, Matteucci C, Stoppacciaro A, Schnurch H, Risau W, Ruco L, Mantovani A et al. Monoclonal antibodies specific for endothelial cells of mouse blood vessels. Their application in the identification of adult and embryonic endothelium. *Eur J Cell Biol*;63(2):247-54. 1994 Apr. [PMID: 8082649] (Mouse)

Leenders W, van Altena M, Lubsen N, Ruiter D, De Waal R. In vivo activities of mutants of vascular endothelial growth factor (VEGF) with differential in vitro activities. *Int J Cancer*;91(3):327-33. 2001 Feb 1. [PMID: 11169955] (IHC-Fr, Mouse)

Del Maschio A, De Luigi A, Martin-Padura I, Brockhaus M, Bartfai T, Fruscella P, Adorini L, Martino G, Furlan R, De Simoni MG, Dejana E. Leukocyte recruitment in the cerebrospinal fluid of mice with experimental meningitis is inhibited by an antibody to junctional adhesion molecule (JAM). *J Exp Med*;190(9):1351-6. 1999 Nov 1. [PMID: 10544206] (In vivo, Mouse)

More publications at <http://www.novusbio.com/NB100-1642>





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### **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.

**For more information on our guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee).**

