

# Product Datasheet

## CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free NBP2-80640

Unit Size: 0.1 ml

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

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**NBP2-80640****CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MEC13.3
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	82.5 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rat CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free (NB600-1475) is a monoclonal antibody validated for use in IHC, Flow, ICC/IF and IP. Anti-CD31/PECAM-1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rat
<b>Gene ID</b>	5175
<b>Gene Symbol</b>	PECAM1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse and Human reactivity reported in scientific literature.
<b>Immunogen</b>	This CD31/PECAM-1 Antibody (MEC13.3) was developed against mouse endothelial cell line T-end.
<b>Product Application Details</b>	
<b>Applications</b>	Immunohistochemistry-Paraffin, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, In vitro assay, In vivo assay, Immunoprecipitation, CyTOF-ready
<b>Recommended Dilutions</b>	Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:100-1:500, Immunocytochemistry/ Immunofluorescence 1:1000-1:2000, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:100-1:500, Immunohistochemistry-Frozen, In vitro assay reported in scientific literature (PMID 24647208), In vivo assay reported in scientific literature, Flow (Cell Surface), CyTOF-ready
<b>Application Notes</b>	This CD31/PECAM1 Antibody (MEC13.3) is useful for in vitro and in vivo blocking of CD31-mediated cell-cell interactions. Please Note: NB600-1475 works well on acetone-fixed frozen sections as well as zinc-fixed paraffin-embedded sections. However, it is not recommended for formalin-fixed paraffin-embedded sections due to inconsistent results. This antibody is CyTOF ready.

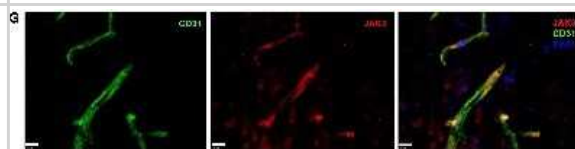


## Images

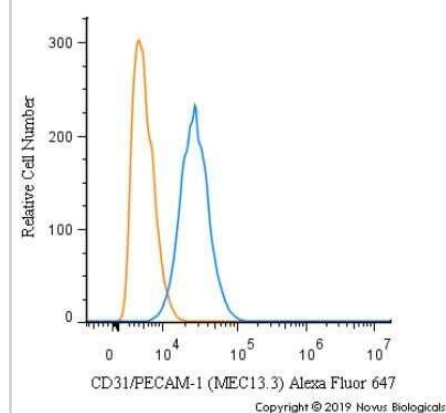
Immunocytochemistry: CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - Staining of mouse CD31 in non-small cell lung cancer tumor sections from a human NSCLC tumor-bearing mouse. This image was submitted via customer Review. Image from the standard format of this antibody.



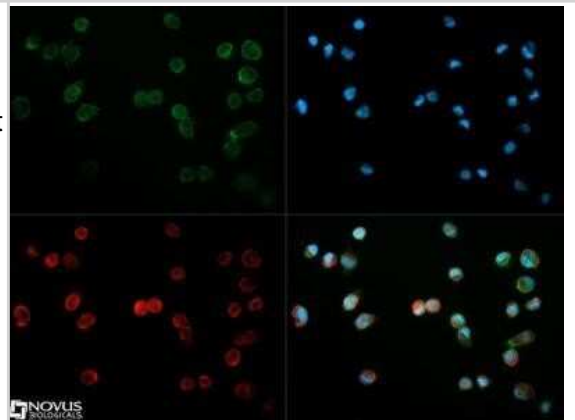
Immunohistochemistry: CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - JAK3 colocalized with endothelial cells labeled with CD31. Image collected and cropped by CiteAb from the following publication (<https://journal.frontiersin.org/article/10.3389/fneur.2017.00363/full>), licensed under a CC-BY license. Image from the standard



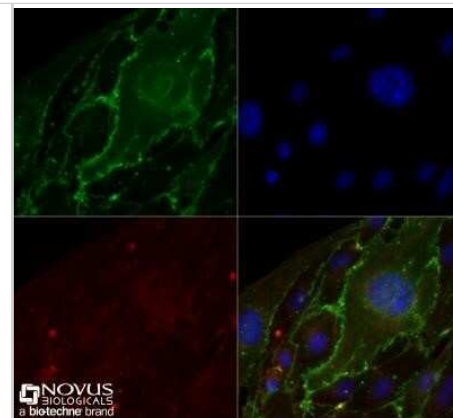
Flow Cytometry: CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - A surface stain was performed on MS-1 cells with CD31/PECAM-1 Antibody (MEC13.3) (NB600-1475AF647, blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 µg/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647.



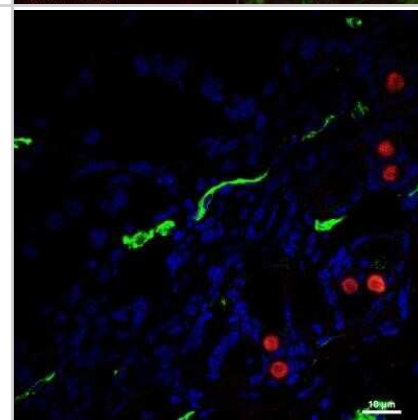
Immunocytochemistry/Immunofluorescence: CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - CD31/PECAM-1 Antibody (MEC13.3) was tested in Wehi-3 cells with Dylight 488 (green). Nuclei and beta-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). Image from the standard format of this antibody.



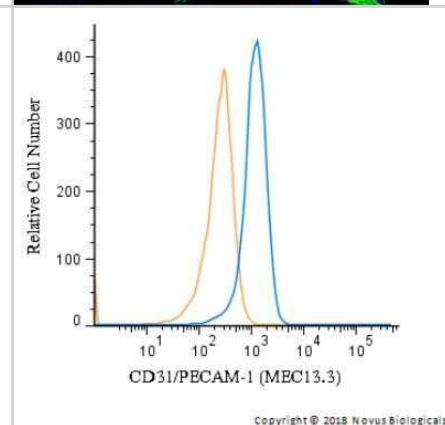
**Immunocytochemistry/Immunofluorescence:** CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - MS1 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with CD31/PECAM-1 Antibody (MEC13.3) at 5.0 ug/ml overnight at 4C and detected with an anti-mouse Dylight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image from the standard format of this antibody.



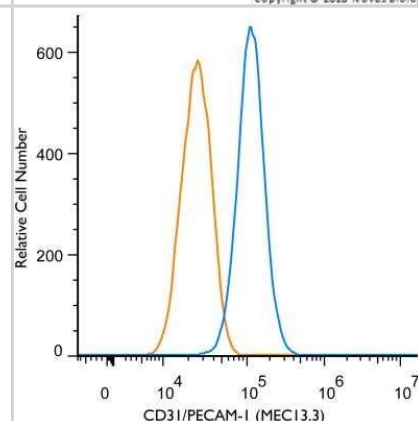
**Immunohistochemistry:** CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - 4T1 tumor sections were stained for CD31 (green) and CD105 (red). Image from the standard format of this antibody.



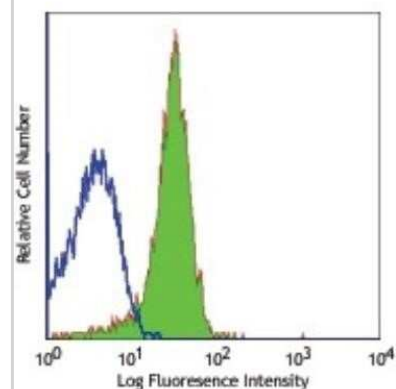
**Flow (Cell Surface):** CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - A surface stain was performed on WEHI-3 Cells with CD31 (MEC13.3) antibody NB600-1475 (blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 2.5 ug/mL for 20 minutes at room temperature, followed by rat F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0113, R&D Systems). Image from the standard format of this antibody.



**Flow (Cell Surface):** CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - A surface stain was performed on WEHI-3 Cells with CD31/PECAM-1 Antibody (MEC13.3) (NB600-1475, blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 2.5 ug/mL for 20 minutes at room temperature, followed by rat F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0113, R&D Systems). Image from the standard format of this antibody.



Flow Cytometry: CD31/PECAM-1 Antibody (MEC13.3) - Azide and BSA Free [NBP2-80640] - C57BL/6 mouse splenocytes stained with purified CD31/PECAM-1 Antibody (MEC13.3), followed by anti-rat IgG FITC Image from the standard format of this antibody.



## Publications

Pang L, Dunterman M, Xuan W et al. Circadian regulator CLOCK promotes tumor angiogenesis in glioblastoma Cell reports 2023-02-14 [PMID: 36795563] (IHC, Human)



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HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP1-43321-0.5mg	Rat IgG2a Kappa Light Chain Isotype Control (R2a)
NBP2-54655PEP	CD31/PECAM-1 Recombinant Protein Antigen

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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.

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