

# Product Datasheet

## CD31/PECAM-1 Antibody (JC/70A) - Azide and BSA Free NBP2-80641

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. After opening store under sterile conditions.

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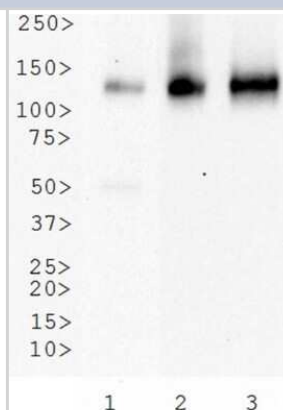


**NBP2-80641****CD31/PECAM-1 Antibody (JC/70A) - Azide and BSA Free**

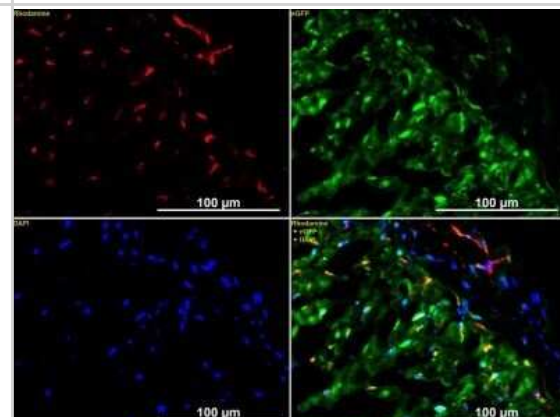
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. After opening store under sterile conditions.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	JC/70A
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 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 Knockout (KO) Validated Mouse CD31/PECAM-1 Antibody (JC/70A) - Azide and BSA Free (NB600-562) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, Dual RNAscope ISH-IHC and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	5175
<b>Gene Symbol</b>	PECAM1
<b>Species</b>	Human, Mouse, Feline, Rabbit
<b>Reactivity Notes</b>	Rabbit (PMID: 21533193) and Mouse (PMID: 29700126) reactivity reported in scientific literature.
<b>Immunogen</b>	This CD31/PECAM-1 Antibody (JC/70A) was developed against a membrane preparation of a spleen from a patient with hairy cell leukemia.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, CyTOF-ready, Dual RNAscope ISH-IHC, Immunocytochemistry, Knockout Validated
<b>Recommended Dilutions</b>	Western Blot 1:100-1:500, Flow Cytometry 1:100-1:250, ELISA reported in scientific literature (PMID 8307606), Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:10-1:25, Immunohistochemistry-Frozen, Flow (Cell Surface) 1:100-1:250, Immunocytochemistry, CyTOF-ready, Knockout Validated, Dual RNAscope ISH-IHC
<b>Application Notes</b>	This CD31/PECAM1 Antibody (JC/70A) reacts with an ~100 kDa glycoprotein expressed by endothelial cells and ~130 kDa glycoprotein present in platelets. It stains endothelial cells in normal as well as malignant tissues. Prior to immunostaining paraffin tissues, antigen retrieval with sodium citrate buffer (pH 6.0) is recommended.

## Images

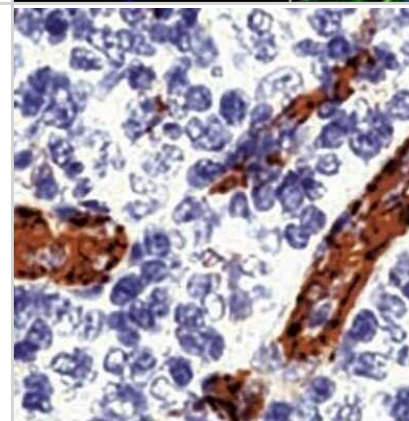
Analysis of CD31/PECAM1 expression in 1) Jurkat whole cell lysate, 2) human platelet lysate and 3) U937 whole cell lysate. Image from the standard format of this antibody.



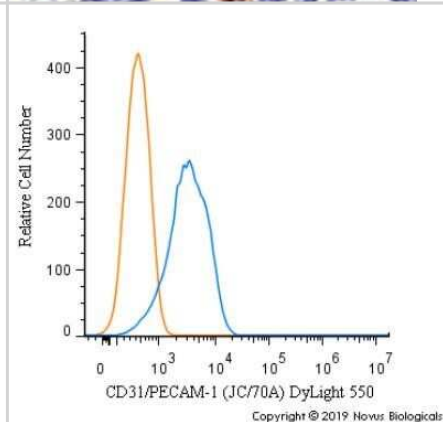
Rabbit Heart, CD31 Stained Red. Image from verified customer review. Image from the standard format of this antibody.



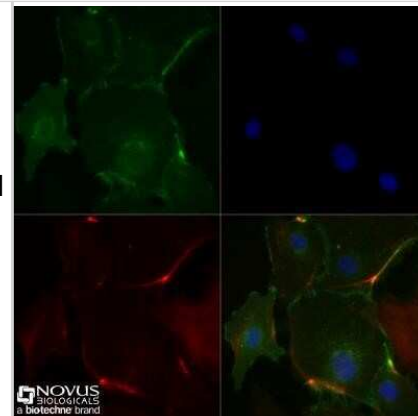
FFPE human tonsil stained with CD31/PECAM-1 Antibody (JC/70A). Image from the standard format of this antibody.



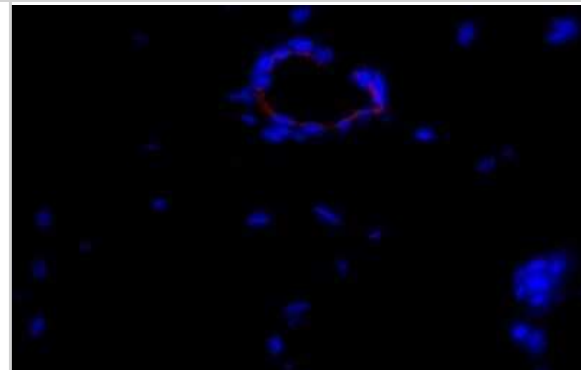
A surface stain was performed on Jurkat cells with the DyLight 550 conjugate of CD31/PECAM-1 Antibody (JC/70A) (NB600-562R, blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 5 ug/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to DyLight 550.



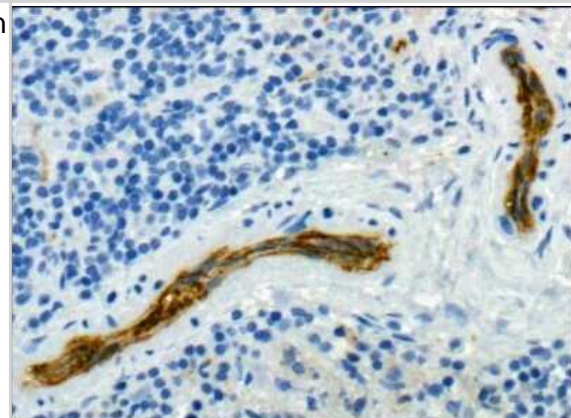
HUVEC cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with CD31/PECAM-1 Antibody (JC/70A) at 2 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected 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.



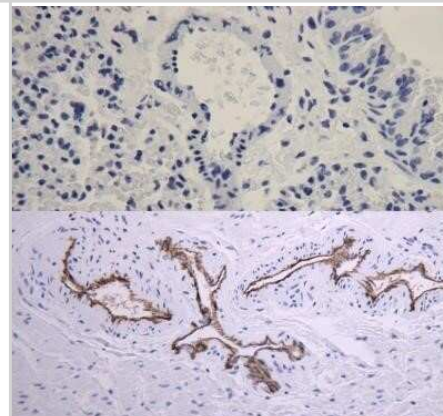
Imaging of Feline Endothelial cells with antibody dilution of 1:25. CD31/PECAM-1 (Red), DAPI (Blue). This image was submitted via customer Review. Image from the standard format of this antibody.



Analysis of CD31/PECAM1 in human spleen using DAB with hematoxylin counterstain. Image from the standard format of this antibody.



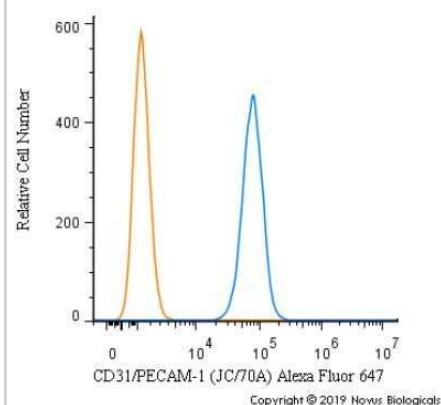
Analysis using the Biotin conjugate of NB600-562. Comparison between mouse (lung, top) and human (prostate, bottom) staining using anti-CD31 antibody. Data demonstrates that the antibody stains human, but not mouse CD31. Image from verified customer review



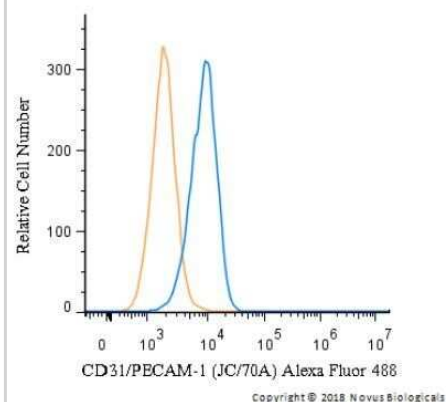
A cell surface stain was performed on HUVEC cells with ( NB600-562, blue) along with a matched isotype control NBP2-27287 (orange). Cells were incubated in an antibody dilution of 1:100 for 20 minutes at RT. (Panel A). A negative control (HeLa cells) was also stained to ensure antibody specificity (Panel B). Image from the standard format of this antibody.



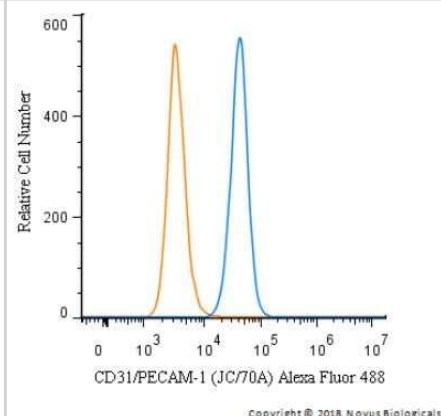
A surface stain was performed on THP-1 cells with the Alexa Fluor 647 conjugate of CD31/PECAM-1 Antibody (JC/70A) (NB600-562AF647, blue) and a matched isotype control (orange). Cells were incubated in an antibody dilution of 2.5 ug/mL for 20 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647.



A cell surface stain was performed on Jurkat cells with the Alexa Fluor 488 conjugate of CD31/PECAM-1 Antibody (JC/70A) (NB600-562AF488, blue) along with a matched isotype control. Cells were incubated in an antibody dilution of 10 ug/ml for 20 minutes at RT. Both antibodies were directly conjugated to Alexa Fluor 488.

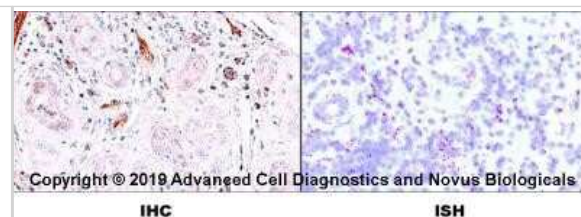


A cell surface stain was performed on THP-1 cells with the Alexa Fluor 488 conjugate of CD31/PECAM-1 Antibody (JC/70A) NB600-562AF488 (blue) along with a matched isotype control. Cells were incubated in an antibody dilution of 5 ug/ml for 20 minutes at RT. Both antibodies were directly conjugated to Alexa Fluor 488.

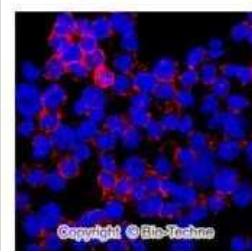




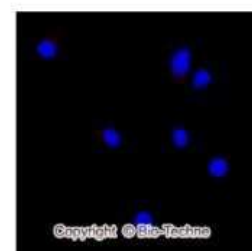
Formalin-fixed paraffin-embedded tissue sections of human metastatic tonsil were probed for CD31 mRNA (ACD RNAScope probe, catalog # 487381; Fast Red chromogen, ACD catalog # 322500). Adjacent tissue section was processed for immunohistochemistry using mouse monoclonal (NB600-562) at 1:25 dilution for 1 hour at room temperature followed by incubation with the anti-mouse IgG VisUCyte HRP Polymer Antibody (Catalog # VC001) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue). Image from the standard format of this antibody.



CD31/PECAM-1 was detected in immersion fixed THP-1 (red, positive) but not THP-1 KO (negative) cells using 8 ug/mL Mouse Anti-Human CD31/PECAM-1 (JC/70A) Monoclonal Antibody (Catalog # NB600-562) for 3 hours at room temperature. Cells were stained with the NorthernLights(TM) 557-conjugated Donkey anti-Mouse IgG Secondary Antibody (red, Catalog # NL007)) and counterstained with DAPI (blue). Image from the standard format of this antibody.



Positive (THP-1 cells)



Negative (THP-1 KO cells)



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### **Products Related to NBP2-80641**

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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)
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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