

# Product Datasheet

## CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free NBP2-33136

Unit Size: 0.1 mg

Store at -20 to -80C. Avoid freeze-thaw cycles.

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**NBP2-33136**

CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20 to -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	C31.7
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS
<b>Target Molecular Weight</b>	82.5 kDa
<b>Product Description</b>	
<b>Description</b>	1.0 mg/ml of antibody purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS WITHOUT BSA & azide. Also available at 200 ug/ml WITH BSA & azide (NBP2-15188).  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Mouse
<b>Gene ID</b>	5175
<b>Gene Symbol</b>	PECAM1
<b>Species</b>	Human, Cynomolgus Monkey, Rabbit
<b>Reactivity Notes</b>	Weakly reacts with Rat.
<b>Marker</b>	Endothelial Cell Marker
<b>Specificity/Sensitivity</b>	CD31 (PECAM-1) is a transmembrane glycoprotein member of the immunoglobulin supergene family of adhesion molecules. CD31 is expressed by stem cells of the hematopoietic system and is primarily used to identify and concentrate these cells for experimental studies as well as for bone marrow transplantation. Anti-CD31 has shown to be highly specific and sensitive for vascular endothelial cells. Staining of nonvascular tumors (excluding hematopoietic neoplasms) is rare. CD31 monoclonal antibody reacts with normal, benign, and malignant endothelial cells which make up blood vessel lining. The level of CD31 expression can help to determine the degree of tumor angiogenesis, and a high level of CD31 expression may imply a rapidly growing tumor and potentially a predictor of tumor recurrence.
<b>Immunogen</b>	Recombinant human full-length CD31/PECAM-1 protein (Uniprot: P16284)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 0.5-1.0ug/ml, Flow Cytometry 0.5-1ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 0.5-1.0ug/ml, Immunohistochemistry-Frozen 0.5-1.0ug/ml, CyTOF-ready

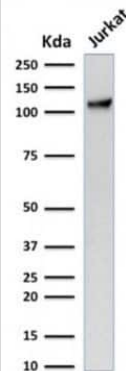


**Application Notes**

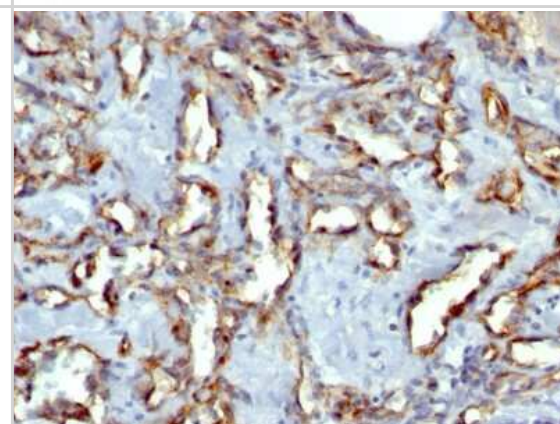
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

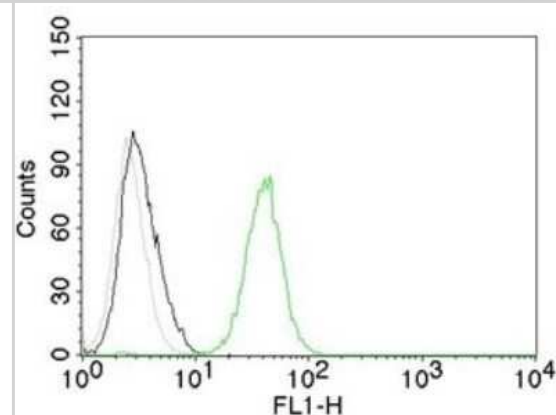
Western Blot: CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free [NBP2-33136] - Western Blot Analysis of human Jurkat cell lysate using CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free.



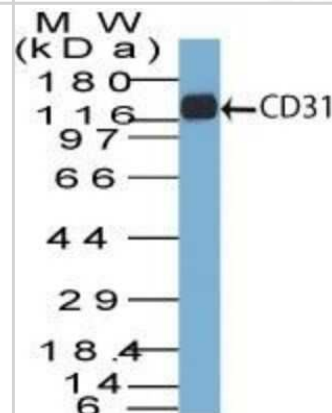
Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free [NBP2-33136] - Formalin-paraffin human Angiosarcoma stained with CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free.



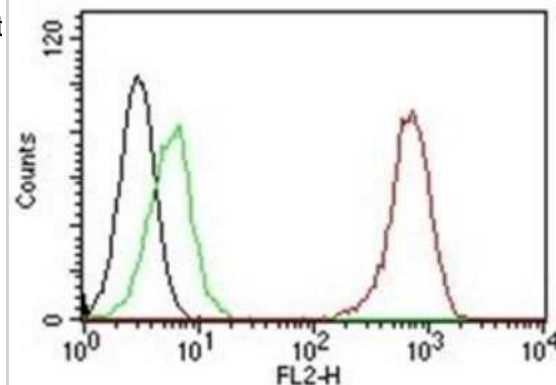
Flow Cytometry: CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free [NBP2-33136] - Flow Cytometry of human CD31 on Jurkat cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free.



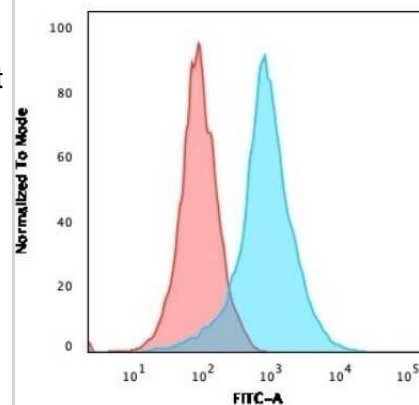
Western Blot: CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free [NBP2-33136] - Western blot of CD31 in THP-1 lysate using CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free.



Flow Cytometry: CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free [NBP2-33136] - Flow Cytometric Analysis of human CD31 on Jurkat cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free.



Flow Cytometry: CD31/PECAM-1 Antibody (C31.7) - Azide and BSA Free [NBP2-33136] - Flow Cytometric Analysis of paraformaldehyde-fixed Jurat cells using CD31/PECAM-1 Antibody (C31.7) followed by goat anti- Mouse- IgG-CF488 (Blue); Isotype Control (Red).



## Publications

O'Connor M, Patil R, Yu J et al. Mesenchymal Stem Cells Synergize with 635, 532, and 405 nm Laser Wavelengths in Renal Fibrosis: A Pilot Study. Photomed Laser Surg. [PMID: 27244220]

Details:

Citation using the Azide and BSA Free form of this antibody.



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### **Products Related to NBP2-33136**

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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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