

# Product Datasheet

## CD31/PECAM-1 Antibody (C31.7)

### NBP2-15188-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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#### Publications: 2

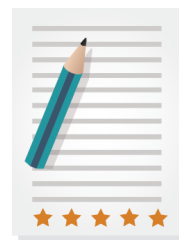
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**NBP2-15188-0.1mg**

CD31/PECAM-1 Antibody (C31.7)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	C31.7
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	82.5 kDa

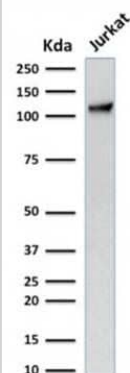
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-33136)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	5175
Gene Symbol	PECAM1
Species	Human, Cynomolgus Monkey, Rabbit
Reactivity Notes	Weakly reacts with Rat.
Marker	Endothelial Cell Marker
Specificity/Sensitivity	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.
Immunogen	Recombinant human full-length CD31/PECAM-1 protein (Uniprot: P16284)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml
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.

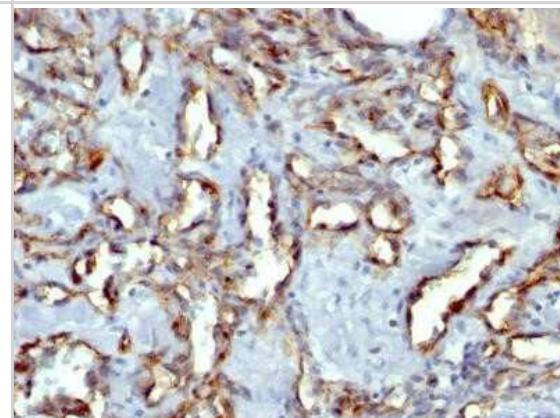


## Images

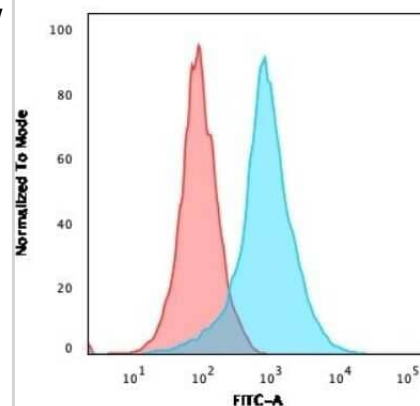
Western Blot: CD31/PECAM-1 Antibody (C31.7) [NBP2-15188] - Western Blot Analysis of human Jurkat cell lysate using CD31/PECAM-1 Antibody (C31.7).



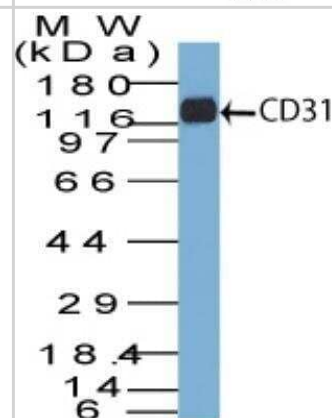
Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.7) [NBP2-15188] - Analysis using Azide/BSA FREE version of CD31/PECAM-1 Antibody (C31.7). Formalin-paraffin human Angiosarcoma.



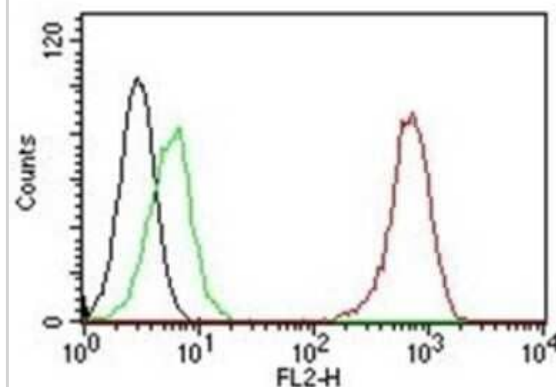
Flow Cytometry: CD31/PECAM-1 Antibody (C31.7) [NBP2-15188] - Flow Cytometric Analysis of paraformaldehyde-fixed Jurkat cells using CD31/PECAM-1 Antibody (C31.7) followed by goat anti-Mouse-IgG-CF488 (Blue); Isotype Control (Red).



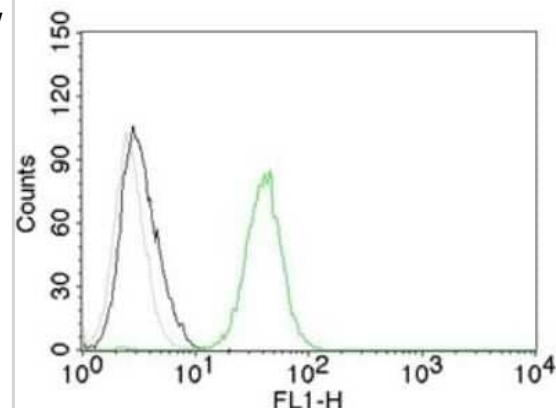
Western Blot: CD31/PECAM-1 Antibody (C31.7) [NBP2-15188] - Analysis using the Azide and BSA Free version of CD31/PECAM-1 Antibody (C31.7). Detection of CD31 in THP-1 lysate.



Flow Cytometry: CD31/PECAM-1 Antibody (C31.7) [NBP2-15188] - Flow Cytometric Analysis of human CD31 on Jurkat cells. Black: Cells alone; Green: Isotype Control; Red: PE-labeled CD31/PECAM-1 Antibody (C31.7).



Flow Cytometry: CD31/PECAM-1 Antibody (C31.7) [NBP2-15188] - Flow Cytometry of human CD31 on Jurkat cells. Black: cells alone; Grey: Isotype Control; Green: AF488-labeled CD31/PECAM-1 Antibody (C31.7).



## Publications

Magalhaes RS, Williams JK, Yoo KW et al. A tissue-engineered uterus supports live births in rabbits Nat. Biotechnol. 2020-06-29 [PMID: 32601434]

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 NBP2-15188-0.1mg**

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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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