

# Product Datasheet

## CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free NBP2-47785-0.1mg

Unit Size: 0.1 mg

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

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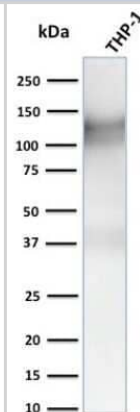
**NBP2-47785-0.1mg**

CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free

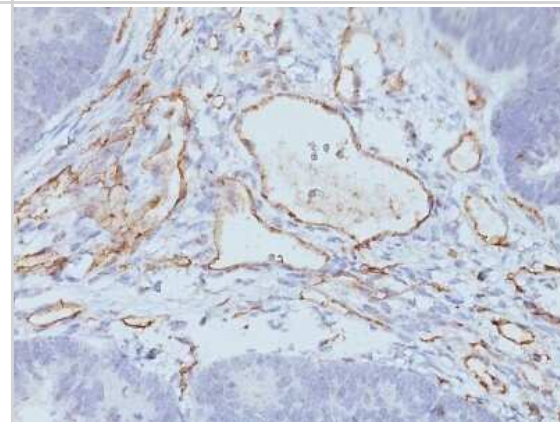
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at -20 to -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	C31.3 + C31.7 + C31.10
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa/IgG1 Kappa/IgG1 Kappa
<b>Purity</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 (NBP2-44342).  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, Rat, Cynomolgus Monkey, Rabbit
<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 full-length human CD31/PECAM-1 protein (Uniprot: P16284)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
<b>Application Notes</b>	Use in ICC/IF reported in scientific literature (PMID:10.1016/j.cmet.2021.05.013)

## Images

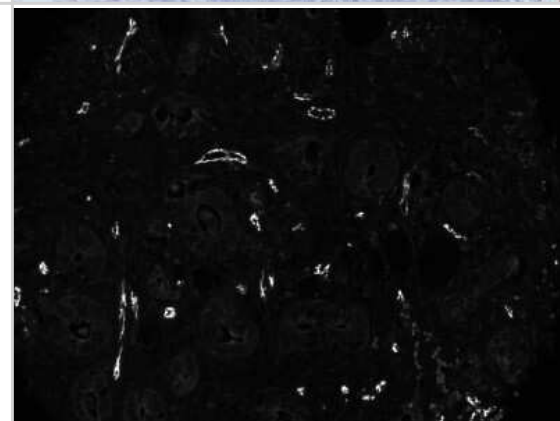
Western Blot: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free [NBP2-47785] - Western Blot Analysis of human THP-1 cell lysate using CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free.



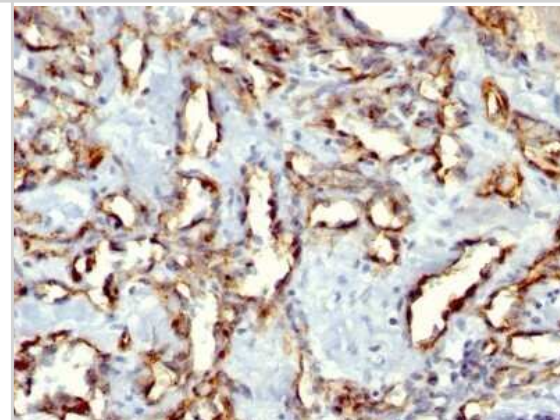
Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free [NBP2-47785] - Colon Carcinoma stained with CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free.



Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free [NBP2-47785] - Cholangiocellular carcinoma (liver cancer tissue) stained with ATTO550 conjugated CD31 antibody. Image from verified customer review.



Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free [NBP2-47785] - Formalin-fixed, paraffin-embedded Angiosarcoma stained with CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) - Azide and BSA Free.



## Publications

D Phillips, M Matusiak, BR Gutierrez, SS Bhate, GL Barlow, S Jiang, J Demeter, KS Smythe, RH Pierce, SP Fling, N Ramchurren, MA Cheever, Y Goltsev, RB West, MS Khodadoust, YH Kim, CM Schürch, GP Nolan Immune cell topography predicts response to PD-1 blockade in cutaneous T cell lymphoma *Nature Communications*, 2021-11-18;12(1):6726. 2021-11-18 [PMID: 34795254]

Mascharak S, Guo JL, Foster DS et al. Desmoplastic stromal signatures predict patient outcomes in pancreatic ductal adenocarcinoma *Cell reports. Medicine* 2023-10-11 [PMID: 37865092]

Wabel E, Orr A, Flood ED et al. Chemerin is resident to vascular tunics and contributes to vascular tone *American journal of physiology. Heart and circulatory physiology* 2023-07-01 [PMID: 37294893]

Fan F, Malvestiti S, Vallet S et al. JunB is a key regulator of multiple myeloma bone marrow angiogenesis *Leukemia* 2021-05-19 [PMID: 34007044]

### Details:

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

Wu CT, Lidsky PV, Xiao Y et al. SARS-CoV-2 infects human pancreatic  $\beta$  cells and elicits  $\beta$  cell impairment *Cell Metab* 2021-06-03 [PMID: 34081912] (ICC/IF, Human)

### Details:

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

Lee IT, Nakayama T, Wu CT et al ACE2 localizes to the respiratory cilia and is not increased by ACE inhibitors or ARBs *Nat Commun* 2020-10-29 [PMID: 33116139] (IHC-P, IHC-P, Human)

### Details:

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

Lee IT, Nakayama T, Wu CT et al. Robust ACE2 protein expression localizes to the motile cilia of the respiratory tract epithelia and is not increased by ACE inhibitors or angiotensin receptor blockers *medRxiv* 2020-01-01 [PMID: 32511516] (IHC-P, Human)

### Details:

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





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### Products Related to NBP2-47785-0.1mg

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-54655PEP	CD31/PECAM-1 Recombinant Protein Antigen
210-TA-005	TNF-alpha [Unconjugated]

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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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