

Product Datasheet

CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) NBP2-44342-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-44342-0.1mg

CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	C31.3 + C31.7 + C31.10
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa/IgG1 Kappa/IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	82.5 kDa

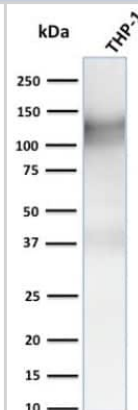
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml.(NBP2-47785) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	5175
Gene Symbol	PECAM1
Species	Human, Rat, Cynomolgus Monkey, Rabbit
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 full-length human CD31/PECAM-1 protein (Uniprot: P16284)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:50, Immunoprecipitation 2ug/500ul, 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.

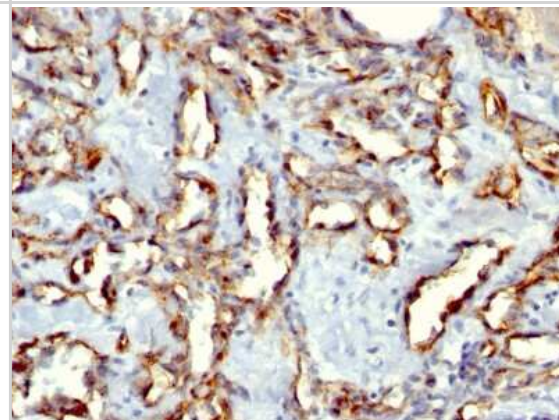


Images

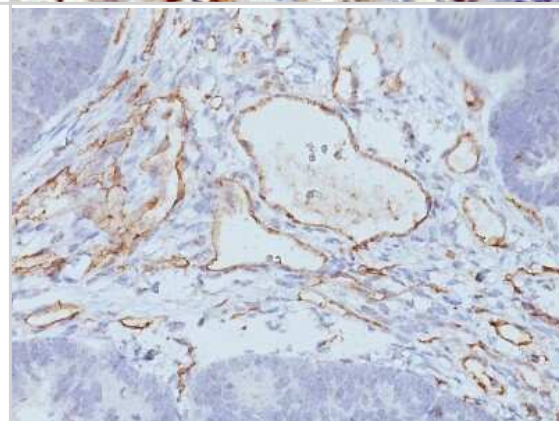
Western Blot: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) [NBP2-44342] - Western Blot Analysis of human THP-1 cell lysate using CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10)



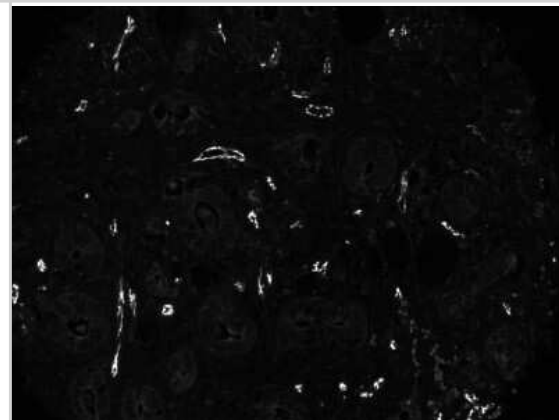
Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) [NBP2-44342] - Formalin-fixed, paraffin-embedded Angiosarcoma stained with CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10).



Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) [NBP2-44342] - Colon Carcinoma stained with CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10).



Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + C31.7 + C31.10) [NBP2-44342] - Cholangiocellular carcinoma (liver cancer tissue) stained with ATTO550 conjugated CD31 antibody. Image from verified customer review.



Publications

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]

Mirza Muhammad Fahd Qadir, Manika Bhondeley, Wandy Beatty, Dina D. Gaupp, Lara A. Doyle-Meyers, Tracy Fischer, Ishitri Bandyopadhyay, Robert V. Blair, Rudolf Bohm, Jay Rappaport, Eric Lazartigues, Richard S. Vander Heide, Jay K. Kolls, Xuebin Qin, Franck Mauvais-Jarvis SARS-CoV-2 infection of the pancreas promotes thrombofibrosis and is associated with new-onset diabetes JCI Insight 2021-08-23 [PMID: 34241597]

Geng X, Xu Z, Tu C et al. Hydrogel Complex Electrospun Scaffolds and Their Multiple Functions in In Situ Vascular Tissue Engineering ACS Appl Bio Mater 2022-01-11 [PMID: 35014358]

Chen Y, Gao P, Huang L et al. A tough nitric oxide-eluting hydrogel coating suppresses neointimal hyperplasia on vascular stent Nature communications 2021-12-06 [PMID: 34873173]

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

Details:

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

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.

Chen Y, Gao P, Huang L et al. A tough endothelium-like dressing for vascular stents Research Square 2021-04-23

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, Human)

Details:

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

Zhou N, Li P, Qiu H, et al. Comparison of in Vascular Bioreactors and In Vivo Models of Degradation and Cellular Response of Mg-Zn-Mn Stents Annals of biomedical engineering 2021-01-06 [PMID: 33409851]

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.

Tu Q, Zhao X, Liu S et al. Spatiotemporal dual-delivery of therapeutic gas and growth factor for prevention of vascular stent thrombosis and restenosis Applied Materials Today 2020-06-01



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Products Related to NBP2-44342-0.1mg

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]

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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