

Product Datasheet

CD31/PECAM-1 Antibody (C31.3 + JC/70A) NBP2-34283-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-34283-0.1mg

CD31/PECAM-1 Antibody (C31.3 + JC/70A)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	C31.3 + JC/70A
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa/IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	82.5 kDa

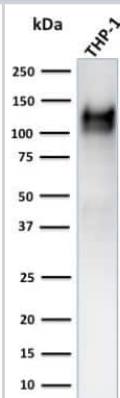
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34578) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	5175
Gene Symbol	PECAM1
Species	Human, Cynomolgus Monkey, Rabbit
Reactivity Notes	Use in Human reported in scientific literature (PMID:33953718)
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	Human recombinant CD31/PECAM-1 protein (C31.3) & Membrane preparation of a spleen from a patient with hairy cell leukemia (JC/70A) (Uniprot: P16284)

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml
Application Notes	Use in Immunohistochemistry reported in scientific literature (PMID:33953718) Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 minutes.

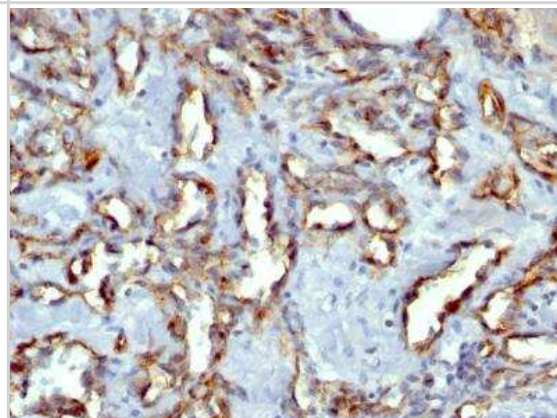


Images

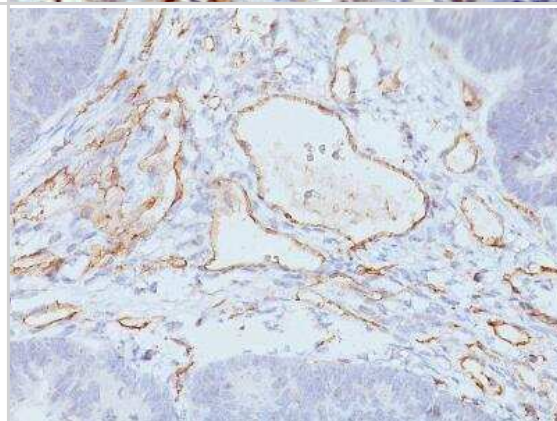
Western Blot: CD31/PECAM-1 Antibody (C31.3 + JC/70A) [NBP2-34283]
- Western Blot Analysis of human THP-1 cell lysate using CD31/PECAM-1 Antibody (C31.3 + JC/70A).



Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + JC/70A) [NBP2-34283] - Formalin-paraffin human Angiosarcoma stained with CD31/PECAM-1 Antibody (C31.3 + JC/70A).



Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31.3 + JC/70A) [NBP2-34283] - Formalin-paraffin human Colon Carcinoma stained with CD31/PECAM-1 Antibody (C31.3 + JC/70A).



Publications

Farina A, Rosato E, York M et al. Innate Immune Modulation Induced by EBV Lytic Infection Promotes Endothelial Cell Inflammation and Vascular Injury in Scleroderma *Frontiers in Immunology* 2021-04-19 [PMID: 33953718] (IF/IHC, Human)

Barron AMS, Mantero JC, Ho JD et al. Perivascular Adventitial Fibroblast Specialization Accompanies T Cell Retention in the Inflamed Human Dermis. *J Immunol.* 2019-01-01 [PMID: 30510068] (IHC-P, Human)

Details:

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

Nazari B, Rice LM, Stifano G et al. Altered Dermal Fibroblasts in Systemic Sclerosis Display Podoplanin and CD90. *Am. J. Pathol.* 2016-08-23 [PMID: 27565038] (IF/IHC)



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Products Related to NBP2-34283-0.1mg

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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