

# Product Datasheet

## CD31/PECAM-1 Antibody (C31/1395R) NBP2-53340-100ug

Unit Size: 100 ug

Store at 4C.

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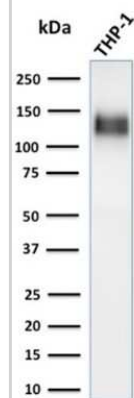
**NBP2-53340-100ug**

CD31/PECAM-1 Antibody (C31/1395R)

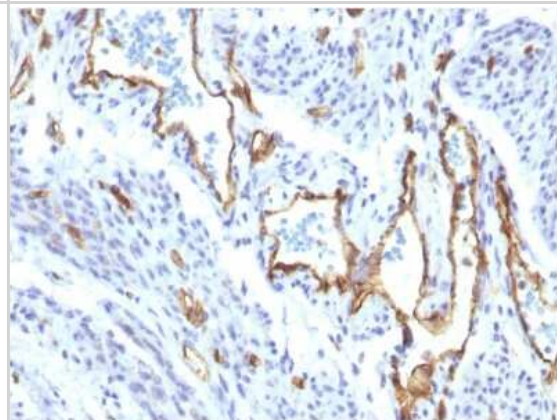
<b>Product Information</b>	
<b>Unit Size</b>	100 ug
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	C31/1395R
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A or G purified
<b>Buffer</b>	10 mM PBS with 0.05% BSA
<b>Target Molecular Weight</b>	82.5 kDa
<b>Product Description</b>	
<b>Description</b>	200ug/ml of antibody purified 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. (NBP2-54385)  Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
<b>Host</b>	Rabbit
<b>Gene ID</b>	5175
<b>Gene Symbol</b>	PECAM1
<b>Species</b>	Human
<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, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Protein Array
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunohistochemistry-Paraffin 1-2 ug/ml, Protein Array
<b>Application Notes</b>	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

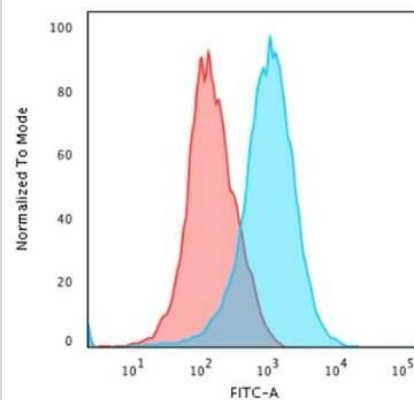
Western Blot: CD31/PECAM-1 Antibody (C31/1395R) [NBP2-53340] - Western Blot Analysis of human THP-1 cell lysate using CD31/PECAM-1 Antibody (C31/1395R).



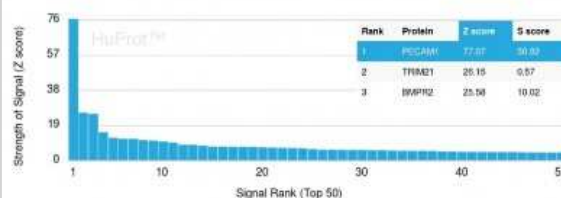
Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (C31/1395R) [NBP2-53340] - Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD31/PECAM-1 Antibody (C31/1395R).



Flow Cytometry: CD31/PECAM-1 Antibody (C31/1395R) [NBP2-53340] - Flow Cytometric Analysis of paraformaldehyde-fixed Jurkat cells using CD31/PECAM-1 Antibody (C31/1395R), followed by goat anti-rabbit- IgG-CF488 (Blue); Isotype Control (Red).



Protein Array: CD31/PECAM-1 Antibody (C31/1395R) [NBP2-53340] - Analysis of Protein Array containing more than 19,000 full-length human proteins using CD31/PECAM-1 Antibody (C31/1395R) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD?s) above the mean value of all signals generated on that array. If targets on HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD?s) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5.





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### **Products Related to NBP2-53340-100ug**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
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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