

# Product Datasheet

## CD31/PECAM-1 Antibody (SPM122) NBP2-32930-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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Updated 7/28/2024 v.20.1

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**NBP2-32930-0.1mg**

CD31/PECAM-1 Antibody (SPM122)

| Product Information     |                          |
|-------------------------|--------------------------|
| Unit Size               | 0.1 mg                   |
| Concentration           | 0.2 mg/ml                |
| Storage                 | Store at 4C.             |
| Clonality               | Monoclonal               |
| Clone                   | SPM122                   |
| 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. (NBP2-34732)<br><br>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, Porcine (Negative), Rat (Negative)   |
| Reactivity Notes        | Does not react with Rat or Porcine.  |
| 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               | Membrane preparation of a spleen from a patient with hairy cell leukemia   |

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

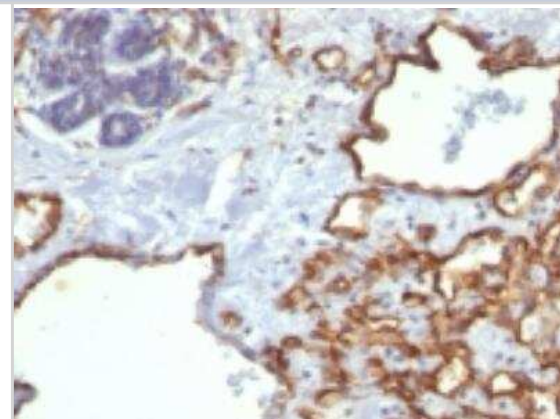


**Application Notes**

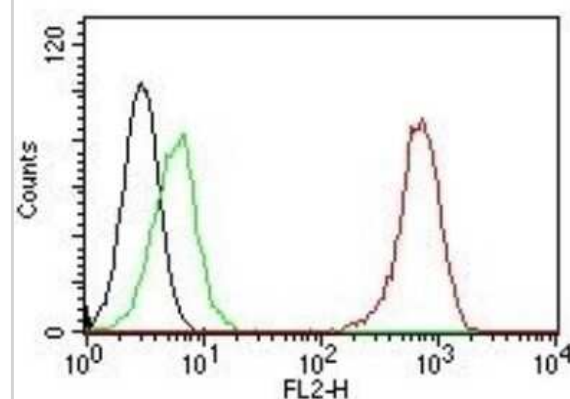
Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 1mM EDTA, pH 7.5-8.5, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

**Images**

Immunohistochemistry-Paraffin: CD31/PECAM-1 Antibody (SPM122) [NBP2-32930] - Formalin-fixed, paraffin-embedded human Angiosarcoma stained with CD31/PECAM-1 Antibody (SPM122).



Flow Cytometry: CD31/PECAM-1 Antibody (SPM122) [NBP2-32930] - Flow Cytometric analysis of human CD31/PECAM-1 on Jurkat cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled CD31/PECAM-1 Monoclonal Antibody (SPM122).





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### **Products Related to NBP2-32930-0.1mg**

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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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