

## CD31 / PECAM-1 (Endothelial Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone C31.10]

| Catalog No           | Format                          | Size               |
|----------------------|---------------------------------|--------------------|
| 5175-MSM7-CF488-100T | Purified Ab conjugated to CF488 | 0.5 ml at 100ug/ml |

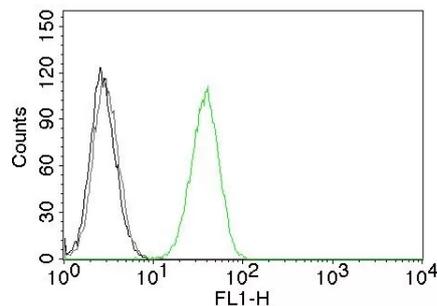
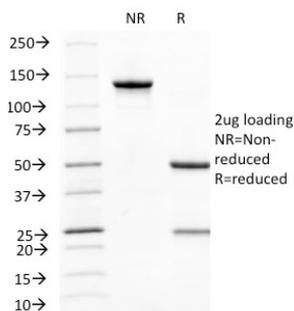
| Applications               | Tested Dillution    | Note  |
|----------------------------|---------------------|---|
| Flow Cytometry (Flow)      | 1-2ug/million cells |   |
| Immunofluorescence (IF)    | 1-3ug/ml            |   |
| Immunohistochemistry (IHC) | 1-2ug/ml            | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |
| Western Blot (WB)          | 2-4ug/ml            |   |

### Product Details

|                               |   |
|-------------------------------|---|
| <b>Clone</b>                  | C31.10  |
| <b>Gene Name</b>              | PECAM-1   |
| <b>Immunogen</b>              | Recombinant human CD31 protein                      |
| <b>Host</b>                   | Mouse   |
| <b>Clonality</b>              | Monoclonal  |
| <b>Isotype / Light Chain</b>  | IgG1 / Kappa  |
| <b>Mol. Weight of Antigen</b> | ~100kDa (endothelium) and ~130kDa (platelets)&apos; |
| <b>Cellular Localization</b>  | Cell junction, Cell membrane, Membrane raft         |
| <b>Species Reactivity</b>     | Human   |
| <b>Positive Control</b>       | Human tonsil. Jurkat cells.                         |

\*Optimal dilution for a specific application should be determined.

### Product Images for CD31 / PECAM-1 (Endothelial Cell Marker) Antibody



SDS-PAGE Analysis of Purified CD31 Mouse Monoclonal Antibody (C31.10). Confirmation of Integrity and Purity of Antibody.

Flow Cytometry of human CD31 on Jurkat cells. Black: cells alone; Grey: Isotype Control; Green: CF488-labeled CD31 Monoclonal Antibody (C31.10).

**Specificity & Comments**

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 MAb 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.

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**Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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**Supplied As**

200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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**Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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**Research Areas**

Angiogenesis, Cardiovascular, Endothelial Cell Marker, Immunology

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