**Species Reactivity**  
Human

**Specificity**  
Detects human CD31/PECAM-1 in direct ELISAs and Western blots. In Western blots, no cross-reactivity with recombinant human (rh) E-Selectin, rhICAM-1, -2, -3, rhVCAM-1, or recombinant mouse VCAM-1 is observed.

**Source**  
Monoclonal Mouse IgG1, Clone # 9G11

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
Activated HUVEC human umbilical vein endothelial cells

**Conjugate**  
Phycoerythrin  
Excitation Wavelength: 488 nm  
Emission Wavelength: 565-605 nm

**Formulation**  
Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.

*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
<td>10 µL/10⁶ cells</td>
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</table>

**DATA**

Flow Cytometry  
Detection of CD31/PECAM-1 in Human Granulocytes by Flow Cytometry. Human peripheral blood granulocytes were stained with Mouse Anti-Human CD31/PECAM-1 PE-conjugated Monoclonal Antibody (Catalog # FAB3567P, filled histogram) or isotype control antibody (Catalog # IC002P, open histogram). View our protocol for Staining Membrane-associated Proteins.

**PREPARATION AND STORAGE**

Shipping  
The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage  
Protect from light. Do not freeze.  
- 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

The CD31 adhesion molecule, also known as PECAM-1, is expressed in large amounts on endothelial cells at intercellular junctions and on T cell subsets, and to a lesser extent on platelets and most other leukocytes such as monocytes and neutrophils. CD31 binds to itself homotypically, and also to the leukocyte integrin αvβ3 heterotypically. CD31 is required for the transendothelial migration of leukocytes through intercellular junctions of vascular endothelial cells. CD31 has been found in human plasma, and the presence of this circulating isoform is suggested to modulate the transendothelial migration of leukocytes.