**DESCRIPTION**

**Species Reactivity**: Human

**Specificity**: The antibody was screened using COS cells transfected with cDNAs for E-Selectin, VCAM-1, ICAM-1 and PECAM-1 and was shown to be specific for human VCAM-1/CD106.

**Source**: Monoclonal Mouse IgG1 Clone # BBIG-V1

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

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

**Endotoxin Level**: <0.10 EU per 1 µg of the antibody by the LAL method.

**Formulation**: Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

**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>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 µg/mL</td>
</tr>
<tr>
<td>Immunocytochemistry</td>
<td>8-25 µg/mL</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>10 µg/mL</td>
</tr>
</tbody>
</table>

**Adhesion Blockade**: The adhesion of U937 human histiocytic lymphoma cells (5 x 10⁶ cells/well) to immobilized Recombinant Human VCAM-1/CD106 (Catalog # ADP5, 2.5 µg/mL, 100 µL/well) was maximally inhibited (80-100%) by 30 µg/mL of the antibody.

**DATA**

**Immunocytochemistry**

VCAM-1/CD106 in HUVEC Cells. VCAM-1/CD106 was detected in immersion fixed HUVEC human umbilical vein endothelial cells using Human VCAM-1/CD106 Monoclonal Antibody (Catalog # BBA5) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the Northern-Lights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (yellow; Catalog # Catalog # NL007) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips. This antibody is not suitable for labeling formalin-fixed, paraffin-embedded tissue.

**Immunocytochemistry**

VCAM-1/CD106 in HUVEC cells treated with TNF alpha (positive) and untreated HUVEC cells (negative). VCAM-1/CD106 was detected in immersion fixed HUVEC cells treated with TNF alpha (positive) and untreated HUVEC cells (negative) using Mouse Anti-Human VCAM-1/CD106 Monoclonal Antibody (Catalog # BBA5) at 8 µg/mL for 3 hours at room temperature. Cells were stained using the Northern-Lights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to plasma membrane. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

**PREPARATION AND STORAGE**

**Reconstitution**: Sterile PBS to a final concentration of 0.5 mg/mL.

**Shipping**: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage**

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

Vascular cell adhesion molecule 1 (VCAM-1) is expressed on the surface of activated endothelial cells and macrophages. It binds to leukocyte integrins VLA-4 and α4β7 to promote leukocyte adhesion at sites of inflamed vasculature.