biotechne

Human VCAM-1/CD106 Antibody

Monoclonal Mouse IgG₁ Clone # BBIG-V1 Catalog Number: BBA5

RDSYSTEMS

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 IgG ₁ Clone # BBIG-V1	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Activated HUVEC human umbilical vein endothelial cells	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.	

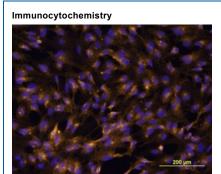
APPLICATIONS

Recombinant Human VCAM-1/CD106 (Catalog # 809-VR
under non-reducing conditions only
See Below
Radiolabelled activated HUVEC human umbilical vein endothelial cells, see our available Western blot detection antibodies

Adhesion Blockade

The adhesion of U937 human histiocytic lymphoma cells (5 x 10⁴ cells/well) to immobilized Recombinant Human VCAM-1/CD106 (Catalog # ADP5, 2.5 μ g/mL, 100 μ L/well) was maximally inhibited (80-100%) by 30 μ g/mL of the antibody.

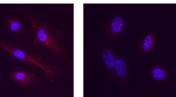
DATA



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™ 557conjugated Anti-Mouse IgG Secondary Antibody (yellow; Catalog # Catalog # NL007) and counter-stained 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

TNF alpha treated



Untreated

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 NorthernLights™ 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.

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