

DESCRIPTION

Species Reactivity	Human
Specificity	This antibody was selected for its ability to stain human ICAM-1/CD54 transfected COS cells. It does not stain COS cells transfected with human E-Selectin, VCAM-1, or PECAM-1.
Source	Monoclonal Mouse IgG ₁ Clone # BBIG-I1 (11C81)
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.

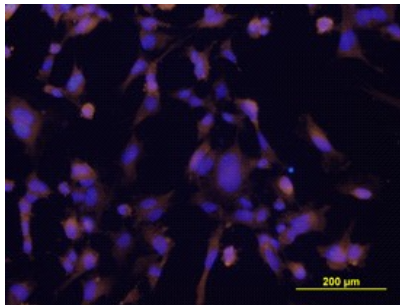
APPLICATIONS

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human ICAM-1/CD54 Fc Chimera (Catalog # 720-IC) under non-reducing conditions only
Immunocytochemistry	8-25 µg/mL	See Below
Adhesion Blockade	The adhesion of HSB2 human peripheral blood acute lymphoblastic leukemia cells (5 x 10 ⁴ cells/well) to immobilized Recombinant Human ICAM-1/CD54 Fc Chimera (Catalog # 720-IC, 12.5 µg/mL, 100 µL/well) was maximally inhibited (80-100%) by 10 µg/mL of the antibody.	
Immunoprecipitation	Davies, M.E., <i>et al.</i> (1991) <i>Connect. Tissue Res.</i> 26:207.	

DATA

Immunocytochemistry



ICAM-1/CD54 in HUVEC Cells.
ICAM-1/CD54 was detected in immersion fixed human umbilical vein endothelial cells (HUVECs) using Mouse Anti-Human ICAM-1/CD54 Monoclonal Antibody (Catalog # BBA3) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (yellow; Catalog # NL007) and counterstained with DAPI (blue). 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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 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

ICAM-1 is a member of the immunoglobulin superfamily whose expression is upregulated on leukocytes, epithelial cells and resting endothelial cells in response to inflammatory signals. ICAM-1 binds the leukocyte integrins LFA-1 and Mac-1.