

DESCRIPTION

Species Reactivity	Human
Specificity	This antibody binds to CHO cells transfected with human E-Selectin. It does not bind to COS cells transfected with human PECAM-1, P-Selectin, L-Selectin, VCAM-1, or ICAM-1.
Source	Monoclonal Mouse IgG ₁ Clone # BBIG-E1
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.

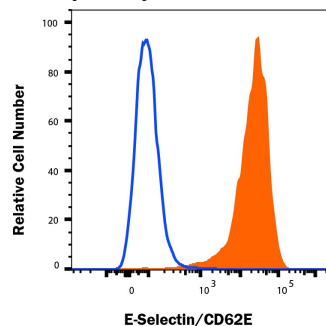
APPLICATIONS

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
Flow Cytometry	0.25 µg/10 ⁶ cells	HUVEC human umbilical vein endothelial cells treated with Recombinant Human TNF-α (Catalog # 210-TA)
Immunocytochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Adhesion Blockade	The adhesion of U937 human histiocytic lymphoma cells (5 x 10 ⁴ cells/well) to immobilized Recombinant Human E-Selectin (Catalog # ADP1, 2 µg/mL, 100 µL/well) was maximally inhibited (80-100%) by 25 µg/mL of the antibody.	
Immunofluorescence	Pigott, R. <i>et al.</i> (1991) J. Immunol. 147 :130.	
Immunoprecipitation	Pigott, R. <i>et al.</i> (1991) J. Immunol. 147 :130.	

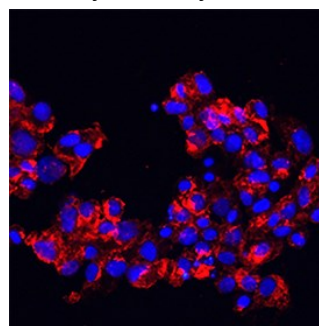
DATA

Flow Cytometry



Detection of E-Selectin/CD62E in HUVECs by Flow Cytometry. Human umbilical cord endothelial cells (HUVECs) were cultured for 6 hours in the presence of 25 ng/mL of rhTNF-α (Catalog # 210-TA, filled histogram) or rested (open histogram) and stained with Mouse anti-human E-selectin/CD62E (BBA26) followed by Goat anti-Mouse APC-conjugated secondary antibody (Catalog # F0101B). Gates were set based on isotype control (Catalog # MAB002, data not shown). Staining was performed using our Staining Membrane-associated Proteins protocol.

Immunocytochemistry



E-Selectin/CD62E in HUVECs. E-Selectin/CD62E was detected in immersion fixed HUVEC human umbilical vein endothelial cells stimulated with Recombinant Human TNF-α (Catalog # 210-TA) using Mouse Anti-Human E-Selectin/CD62E Monoclonal Antibody (Catalog # BBA26) at 5 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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. <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

E-Selectin, also known as ELAM-1, is a transmembrane glycoprotein that is transiently expressed on activated vascular endothelial cells. E-Selectin binds to sialylated, fucosylated molecules on neutrophils, monocytes, and a subset of memory T cells.