

DESCRIPTION

Species Reactivity	Human
Specificity	Detects VCAM-1 in direct ELISA and Western blots. In Western blot, approximately 10% cross-reactivity with recombinant mouse VCAM-1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line (CHO)-derived recombinant human VCAM-1 Extracellular domain
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. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	0.1 µg/mL	Recombinant Human VCAM-1/CD106 (Catalog # 809-VR)
Adhesion Blockade	The adhesion of U937 human histiocytic lymphoma cells (5 x 10 ⁴ cells/well) to immobilized Recombinant Human VCAM-1/CD106 Fc Chimera (Catalog # 862-VC, 10 µg/mL, 100 µL/well) was maximally inhibited (80-100%) by 25 µg/mL of the antibody.	

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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

Vascular cell adhesion molecule (VCAM-1) is expressed on the surface of activated endothelial cells and macrophages. It binds to leukocyte integrins VLA-4 and α4 β7 to promote leukocyte adhesion at sites of inflamed vasculature.