Mouse VCAM-1/CD106
Alexa Fluor® 488-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 112734

Catalog Number: FAB6432G

100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects recombinant mouse (rm) VCAM-1 in Western blots and ELISAs. In sandwich immunoassays, no cross-reactivity or interference was observed with recombinant human VCAM-1, rmICAM-1, rmE-Selectin, rmL-Selectin or rmP-Selectin.
Source	Monoclonal Rat IgG_{2A} Clone # 112734
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse VCAM-1 Phe25-Glu698 (predicted) Accession # P29533
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 µg/10^6 cells	bEnd.3 mouse endothelioma cell line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

VCAM-1 (CD106), a member of the immunoglobulin superfamily, is a cell surface protein expressed by activated endothelial cells and certain leukocytes (such as macrophages). VCAM-1 expression is induced by IL-1β, IL-4, TNF-α and IFN-γ. VCAM-1 binds to leukocyte integrins VLA-4 and $\alpha_4\beta_7$. The human and mouse VCAM-1 proteins share approximately 76% amino acid similarity. During the inflammatory adhesion mechanism, activated integrins halt rolling leukocytes and attach them firmly to the vascular endothelium. They do this by binding to their ligands, for example VCAM-1, on endothelium. The VCAM-1: VLA-4/$\alpha_4\beta_7$ interaction is also thought to be involved in the extravasation of white blood cells through the blood vessel wall to sites of inflammation. ELISA techniques have shown that detectable levels of soluble VCAM-1 are present in the biological fluids of apparently normal individuals. Furthermore, a number of studies have reported that levels of VCAM-1 may be elevated or lowered in subjects with a variety of pathological conditions.

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