

Product datasheet

Anti-VCAM1 antibody [1.G11B1] (Phycoerythrin) ab82438

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Overview

Product name	Anti-VCAM1 antibody [1.G11B1] (Phycoerythrin)
Description	Mouse monoclonal [1.G11B1] to VCAM1 (Phycoerythrin)
Conjugation	Phycoerythrin. Ex: 488nm, Em: 575nm
Specificity	ab82438 inhibits in vitro binding of lymphocytes and monocytes to VCAM1 on stimulated endothelium.
Tested applications	Suitable for: WB, ELISA, IHC-Fr, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	The details of the immunogen for this antibody are not available.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 16% Sucrose, PBS and stabilizing agent.
Purity	IgG fraction
Clonality	Monoclonal
Clone number	1.G11B1
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab82438** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 81 kDa.
ELISA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.

Target**Function**

Important in cell-cell recognition. Appears to function in leukocyte-endothelial cell adhesion. Interacts with the beta-1 integrin VLA4 on leukocytes, and mediates both adhesion and signal transduction. The VCAM1/VLA4 interaction may play a pathophysiologic role both in immune responses and in leukocyte emigration to sites of inflammation.

Tissue specificity

Expressed on inflamed vascular endothelium, as well as on macrophage-like and dendritic cell types in both normal and inflamed tissue.

Sequence similarities

Contains 7 Ig-like C2-type (immunoglobulin-like) domains.

Domain

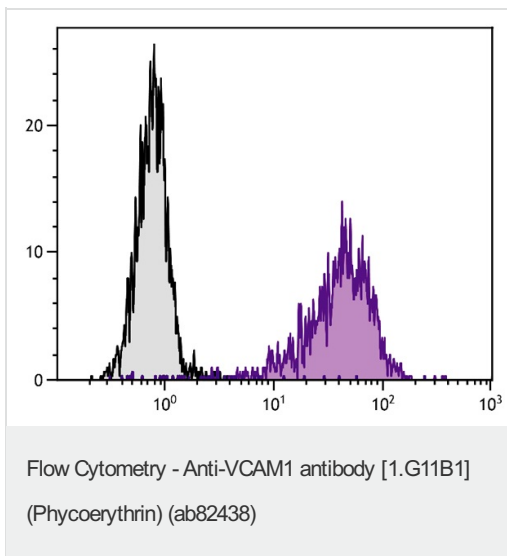
Either the first or the fourth Ig-like C2-type domain is required for VLA4-dependent cell adhesion.

Post-translational modifications

Sialoglycoprotein.

Cellular localization

Membrane.

Anti-VCAM1 antibody [1.G11B1] (Phycoerythrin) images

Flow cytometry analysis staining VCAM1 in HU-VEC-C cells using ab82438 at a dilution of 10 μ L/10⁶ cells. Mouse IgG1-PE was used as an isotype control.

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