

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)
Host species	Mouse
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.
General notes	Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause. If you would like help finding an alternative product, please do not hesitate to contact our scientific support team.

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.

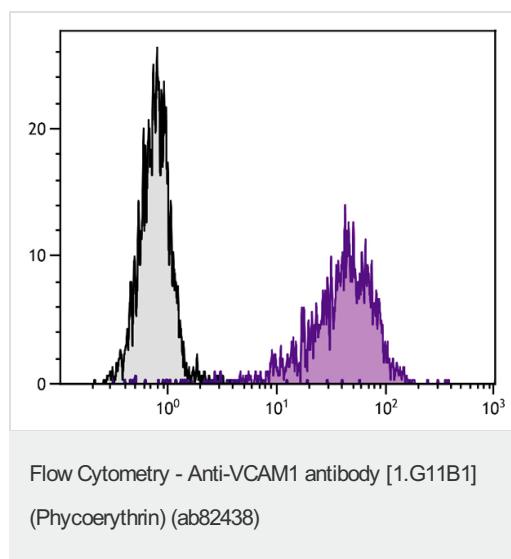
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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.
Flow Cyt		Use 10µl for 10 ⁶ cells. ab91357 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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.

Images



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

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