

Product datasheet

APC Anti-VCAM1 antibody [STA], prediluted ab103173

KO VALIDATED

[2 References](#) [2 Images](#)

Overview

Product name	APC Anti-VCAM1 antibody [STA], prediluted
Description	APC Mouse monoclonal [STA] to VCAM1, prediluted
Host species	Mouse
Conjugation	APC. Ex: 645nm, Em: 660nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human VCAM1. Human DS6 T cell line
Positive control	Flow Cyt: TNF-alpha activated HUVEC cells; Treated A549 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA
Purity	Size exclusion
Purification notes	Conjugates are made from highly purified antibodies (>95% by SDS-PAGE).
Clonality	Monoclonal
Clone number	STA
Isotype	IgG1

Applications

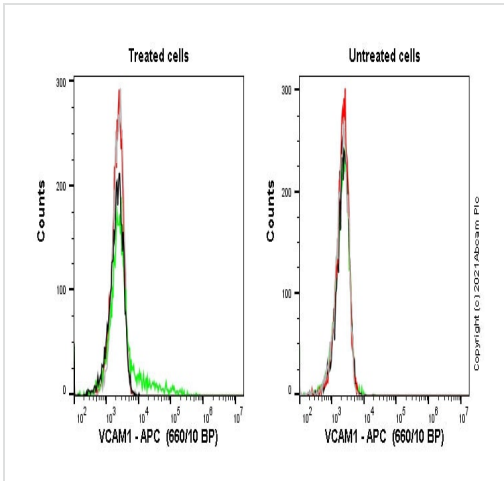
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab103173 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 10µl for 10 ⁶ cells. or 100µl whole blood ab27204 Mouse monoclonal IgG1 is suitable for use as an

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

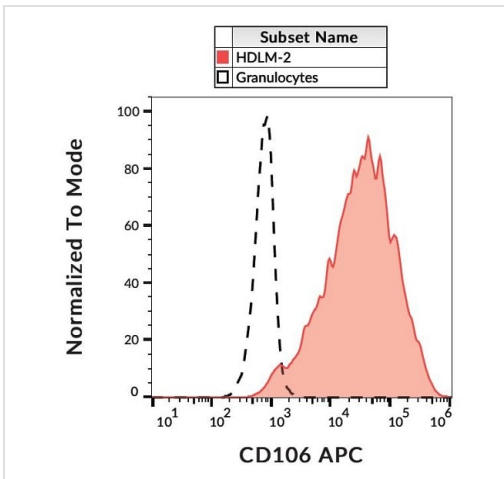


Flow Cytometry - APC Anti-VCAM1 antibody [STA], prediluted (ab103173)

Flow cytometry overlay histogram showing wild-type A549 (green line) and VCAM1 knockout A549 cells (red line, **ab273758**), treated with 10 ng/ml TNF-alpha (**ab259410**) for 16 h (left) and untreated (right), stained with ab103173. The cells were incubated in 1x PBS containing 10% normal goat serum to block non-specific protein-protein interaction followed by the antibody (ab103173) (1×10^6 in $100 \mu\text{l}$ at $0.2 \mu\text{g/ml}$) for 30 min at 4°C .

Isotype control antibody mouse IgG1 κ Allophycocyanin was used at the same concentration and conditions as the primary antibody (wild-type A549 - black line; VCAM knockout A549 - grey line). Unlabelled sample was also used as a control (this line is not shown for the purpose of simplicity).

Acquisition of >5000 events were collected using a 40 mW Red laser (638nm) and 660/10 bandpass filter.



Flow Cytometry - APC Anti-VCAM1 antibody [STA], prediluted (ab103173)

Surface staining of HDLM-2 cells with ab103173.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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