

Anti-ICAM1 antibody [1A29] ab171123

[61 References](#) [8 图像](#)

概述

产品名称	Anti-ICAM1抗体[1A29]
描述	小鼠单克隆抗体[1A29] to ICAM1
宿主	Mouse
经测试应用	适用于: ICC, WB, IHC-P, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human
免疫原	Full length protein corresponding to Rat ICAM1. Rat lymph node stroma - Native protein Database link: Q00238
阳性对照	IHC-P: Mouse kidney, lung and spleen tissues. WB: Mouse kidney, lung and spleen tissue lysate; Rat heart tissue lysate; A549 cell lysate. Flow Cyt: C6, Raji and Ramos cells. ICC: A439 cells.
常规说明	<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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	Constituent: 100% PBS Preservative negative and carrier free.
纯度	Protein A purified
克隆	单克隆
克隆编号	1A29
同种型	IgG1

应用

The Abpromise guarantee

Abpromise™ 承诺保证使用 ab171123 于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC		1/250.
WB		1/250. Predicted molecular weight: 57 kDa.
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		1/20. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能

ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation. In case of rhinovirus infection acts as a cellular receptor for the virus.

序列相似性

Belongs to the immunoglobulin superfamily. ICAM family.
Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

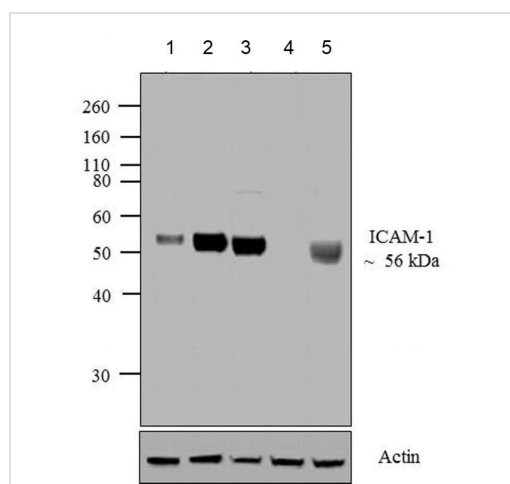
翻译后修饰

Monoubiquitinated, which is promoted by MARCH9 and leads to endocytosis.

细胞定位

Membrane.

图片



Western blot - Anti-ICAM1 antibody [1A29]
(ab171123)

All lanes : Anti-ICAM1 antibody [1A29] (ab171123) at 1/250 dilution

Lane 1 : Mouse spleen lysate

Lane 2 : Mouse lung lysate

Lane 3 : Mouse kidney lysate

Lane 4 : A549 (Human lung carcinoma cell line) whole cell lysate

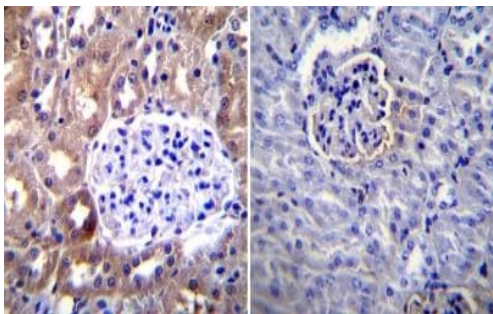
Lane 5 : Rat heart lysate

Lysates/proteins at 20 µg per lane.

Predicted band size: 57 kDa

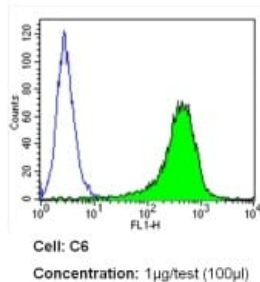
Observed band size: 56 kDa

Western blot analysis was performed on whole cell extracts. The blots were probed with ab171123 (1:250 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate. A 56 kDa band corresponding to ICAM-1 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex[®] NuPAGE[®] 12 % Bis-Tris gel , XCell SureLock[™] Electrophoresis System and Novex[®] Sharp Pre-Stained Protein Standard. Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot[®] 2 Dry Blotting System. The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce[™] ECL Western Blotting Substrate.



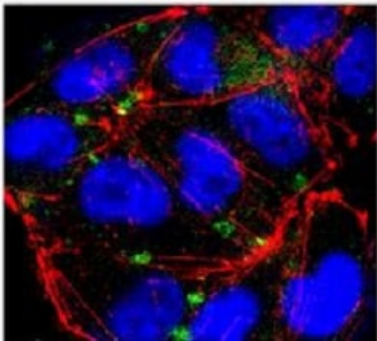
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [1A29] (ab171123)

Immunohistochemical analysis of deparaffinized mouse kidney tissue, labeling ICAM1 with ab171123 at 1/100 dilution (left image) compared with a negative control without primary antibody (right image). Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin.



Flow Cytometry - Anti-ICAM1 antibody [1A29] (ab171123)

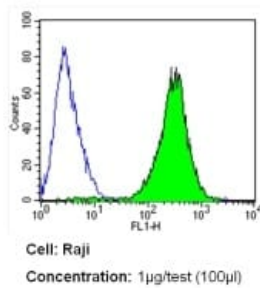
Flow cytometry analysis of ICAM1 in C6 cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of $1-5 \times 10^6$ cells/ml, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a ICAM1 monoclonal antibody (ab171123) at a dilution of 1 µg/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.



Immunocytochemistry - Anti-ICAM1 antibody [1A29]
(ab171123)

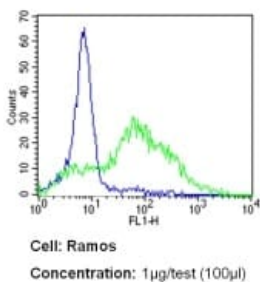
Immunocytochemical analysis of A439 cells staining ICAM1 with ab171123 at 1ug/ml.

Cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton X-100 for 10 minutes and blocked with 5% BSA for 1 hour at room temperature. Cells were incubated with primary antibody at room temperature for 3 hours. Goat Anti-Mouse IgG (H&L) (Alexa Fluor® 488) was used as a secondary antibody.



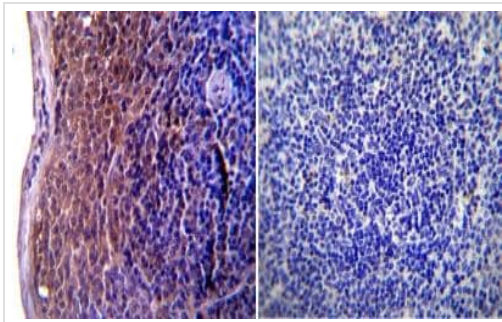
Flow Cytometry - Anti-ICAM1 antibody [1A29]
(ab171123)

Flow cytometry analysis of ICAM1 in Raji cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of $1-5 \times 10^6$ cells/ml, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a ICAM1 monoclonal antibody (ab171123) at a dilution of 1 ug/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.



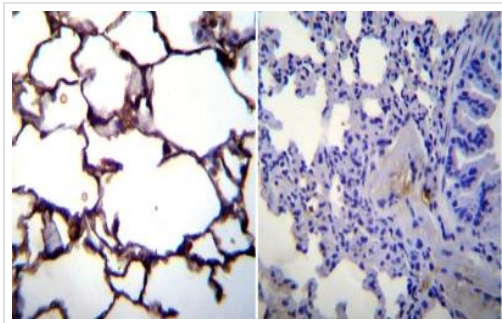
Flow Cytometry - Anti-ICAM1 antibody [1A29]
(ab171123)

Flow cytometry analysis of ICAM1 in Ramos cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of $1-5 \times 10^6$ cells/ml, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated with a ICAM1 monoclonal antibody (ab171123) at a dilution of 1 ug/test for 60 min at room temperature. Cells were then incubated for 40 min at room temperature in the dark using a Dylight 488-conjugated secondary antibody and re-suspended in PBS for FACS analysis.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [1A29] (ab171123)

Immunohistochemical analysis of deparaffinized mouse spleen tissue, labeling ICAM1 with ab171123 at 1/100 dilution (left image) compared with a negative control without primary antibody (right image). Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [1A29] (ab171123)

Immunohistochemical analysis of deparaffinized mouse lung tissue, labeling ICAM1 with ab171123 at 1/100 dilution (left image) compared with a negative control without primary antibody (right image). Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric detection using DAB. Tissues were counterstained with hematoxylin.

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