abcam

ab171123

Anti-ICAM1 antibody [1A29]

Anti-ICAM1 antibody [1A29] (ab171123) is a mouse monoclonal antibody detecting ICAM1 in **Western Blot, Flow Cytometry, IHC-P**. Suitable for **Human, Mouse, Rat**.

- Over 70 publications

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Full Length Protein corresponding to Rat Icam1. The exact immunogen used to generate this antibody is proprietary information. Database link Q00238
Clone number	1A29
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Mouse
Dilution info	1/100
Notes	

Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Expected

Species	Human, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC

Tested

Species	Human
Dilution info	1/250
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt

Tested

Species	Rat
Dilution info	1/20
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Species	Human
Dilution info	1/20
Notes	ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/250
Notes	-

Species	Rat
Dilution info	1/250
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information ICAM1

Function

Cell adhesion molecule that functions as a receptor ligand of the signaling receptor ITGAL:ITGB2/LFA-1 (lymphocyte-function associated (LFA) molecule 1) ensuring leukocyte cell-cell adhesion, by providing a calibrated system to namely adjust T-cell killing to the antigen stimulation strength (PubMed:3086451, PubMed:3340213, PubMed:38195629). Also functions as a ligand receptor of the signaling receptor ITGAM:ITGB2/MAC-1 ensuring adhesion between stimulated neutrophils and stimulated endothelial cells (PubMed:1980124). During leukocyte trans-endothelial migration, ICAM1 engagement promotes the assembly of endothelial apical cups through ARHGEF26/SGEF and RHOG activation (PubMed:17875742). Promotes cell aggregation in epithelial cells through interaction with MUC1 (PubMed:11173916). (Microbial infection) Acts as a receptor for major receptor group rhinovirus A-B capsid proteins. (Microbial infection) Acts as a receptor for Coxsackievirus A21 capsid proteins. (Microbial infection) Upon Kaposi's sarcoma-associated herpesvirus/HHV-8 infection, is degraded by viral E3

ubiquitin ligase MIR2, presumably to prevent lysis of infected cells by cytotoxic T-lymphocytes and NK cell.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What is this antibody validated in?
Anti-ICAM1 antibody [1A29] (ab171123) is a mouse monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P) in Human, Mouse, Rat samples.

What is the molecular weight of ICAM1?
Anti-ICAM1 [1A29] (ab171123) specifically detects a band for ICAM1 (UniProt: Q00238) at a molecular weight of 57kDa.

Trusted by the scientific community
Anti-ICAM1 [1A29] (ab171123) was first used in a scientific publication in 2013 and has been cited over 70 times in peer-reviewed journals.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

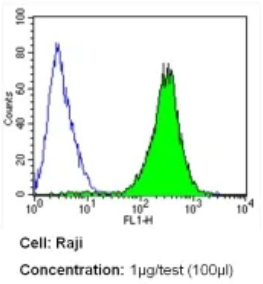
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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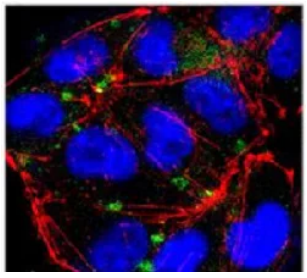
8 product images



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

ICAM1 Flow Cytometry staining using mouse Anti-ICAM1 antibody

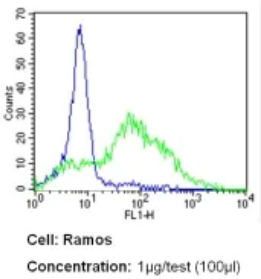
Flow cytometry analysis of ICAM1 in Raji cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10^6 cells/ml, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and 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.



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

ICAM1 Immunocytochemistry staining using mouse Anti-ICAM1 antibody

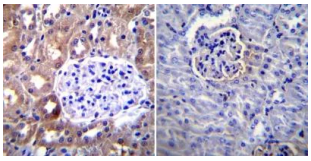
Immunocytochemical analysis of A439 cells staining ICAM1 with ab171123 at 1ug/ml.
Cells were fixed with 4% paraformaldehyde for 15 minutes, permeablilized with 0.25% Trition X-100 for 10 minutes and blocked with 5% BSA for 1 hour at room temparature. Cells were incubated with primary antibody at room 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)

ICAM1 Flow Cytometry staining using mouse Anti-ICAM1 antibody

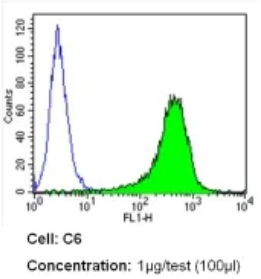
Flow cytometry analysis of ICAM1 in Ramos cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10^6 cells/ml, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and 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)

ICAM1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-ICAM1 antibody

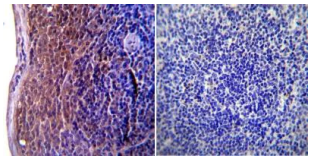
Immunohistochemical analysis of deparaffinized mouse kidney tissue, labeling ICAM1 with ab171123 at 1/100 dilution (left image) compared with a negative control without primary antibody (right image). Detection was performed using a biotin-conjugated secondary antibody and SA-HRP, followed by colorimetric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



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

ICAM1 Flow Cytometry staining using mouse Anti-ICAM1 antibody

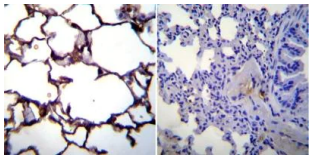
Flow cytometry analysis of ICAM1 in C6 cells (green) compared to an isotype control (blue). Cells were harvested, adjusted to a concentration of 1-5x10^6 cells/ml, fixed with 2% paraformaldehyde and washed with PBS. Cells were blocked with a 2% solution of BSA-PBS for 30 min at room temperature and incubated 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)

ICAM1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-ICAM1 antibody

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)

ICAM1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-ICAM1 antibody

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.

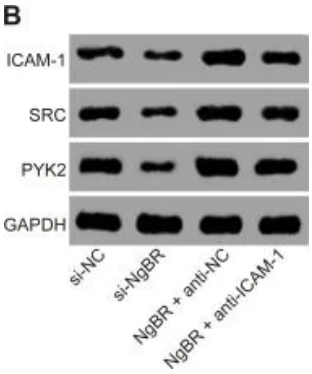


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Western blot - Anti-ICAM1 antibody [1A29] (ab171123)

ICAM1 Western blot staining using mouse Anti-ICAM1 antibody

ICAM1 western blot using anti-ICAM1 antibody [1A29] ab171123. Publication image and figure legend from Zhang, Y., Huo, W., et al., 2019, PLoS One, PubMed 31442237.

ab171123 was used in this publication in western blot. This may not be the same as the application(s) guaranteed by Abcam. For a full list of applications guaranteed by Abcam for ab171123 please see the product overview.

The results of RT-qPCR assay and Western analysis showed that si-NgBR down-regulated ICAM-1 and downstream SRC and PYK2.A, RT-qPCR assay showed that si-NgBR down-regulated ICAM-1 and downstream SRC and PYK2 mRNA expression. BC, Western blot analysis showed that si-NgBR down-regulated ICAM-1 and downstream SRC and PYK2 protein levels. The statistical values were analyzed by Student t-test. * $p < 0.05$ vs. the si-NC group; # $p < 0.05$ vs. the NgBR+ anti-NC group, $n = 20$.

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