

Product datasheet

Anti-ICAM1 antibody [YN1/1.7.4] ab119871

★★★★★ [1 Abreviews](#) [56 References](#) [3 Images](#)

Overview

Product name	Anti-ICAM1 antibody [YN1/1.7.4]
Description	Rat monoclonal [YN1/1.7.4] to ICAM1
Host species	Rat
Tested applications	Suitable for: Flow Cyt, IHC-P
Species reactivity	Reacts with: Mouse, Rat
Immunogen	Tissue, cells or virus corresponding to Mouse ICAM1. Mouse NS-1 cells
Positive control	This antibody gave a positive result in IHC in the following FFPE tissue: Mouse lung.
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. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: 99% PBS
Purity	Protein G purified
Purification notes	Purity is > 95% (y SDS-PAGE).
Clonality	Monoclonal
Clone number	YN1/1.7.4
Isotype	IgG2b

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab119871 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 a concentration of 1 µg/ml. ab18536 - Rat monoclonal IgG2b, is suitable for use as an isotype control with this antibody.
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function

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.

Sequence similarities

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

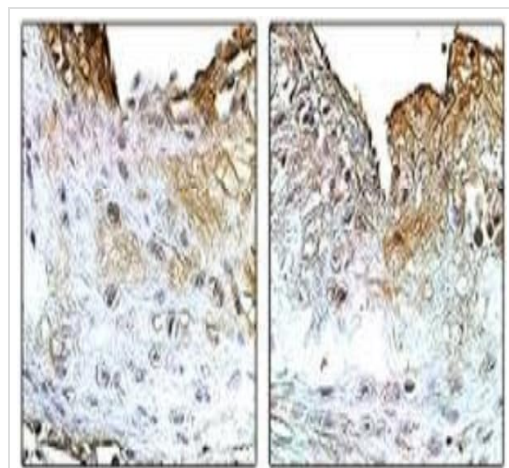
Post-translational modifications

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

Cellular localization

Membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse atherosclerotic lesions of aortic root tissue sections labeling ICAM1 with ab119871 at 1/200 dilution. The aortic root was rapidly fixed and harvested at 4°C in phosphate-buffered 4% paraformaldehyde, pH 7.0–7.4, then embedded in paraffin wax sectioned by semi-automated rotary microtome.

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

[YN1/1.7.4] (ab119871)

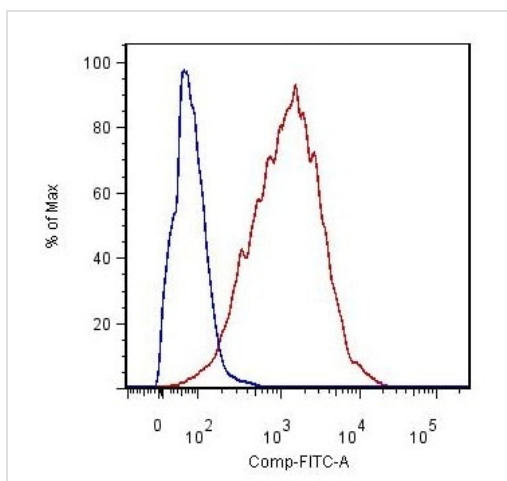
Image from Sun, Hui et al. Journal of Cellular and Molecular Medicine 19.4 (2015): 836–849. doi: 10.1111/jcmm.12521, Fig 6C. Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ICAM1 antibody [YN1/1.7.4] (ab119871)

IHC image of ICAM1 staining in Mouse normal lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol B. The section was pre-treated using heat mediated antigen retrieval with EDTA based pH 9.0 solution, (epitope retrieval solution 2) for 20 mins. The section was then incubated with ab119871, 5µg/ml, for 15 mins at room temperature. A Goat anti-Rat biotinylated secondary antibody was used to detect the primary, and visualized using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Flow Cytometry - Anti-ICAM1 antibody [YN1/1.7.4] (ab119871)

Flow Cytometry analysis of mouse thymocytes labeling ICAM1 with Anti-ICAM1 antibody [YN1/1.7.4] (ab119871).

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

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