Product name: Anti-ICAM1 antibody [YN1/1.7.4] ab119871

Description: Rat monoclonal [YN1/1.7.4] to ICAM1

Host species: Rat

Tested applications: Suitable for: WB, IP, IHC-Fr, Functional Studies, ICC, Flow Cyt, Blocking, IHC-P, IHC-FoFr

Species reactivity: Reacts with: Mouse
Does not react with: Human

Immunogen: Tissue, cells or virus corresponding to Mouse ICAM1.

Positive control: This antibody gave a positive result in IHC in the following FFPE tissue: Mouse lung.

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 A purified

Purification notes: Purity is > 95% (y SDS-PAGE).

Clonality: Monoclonal

Clone number: YN1/1.7.4

Isotype: IgG2b

Applications

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.

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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 atheroslerotic 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.
ab119871 staining ICAM1 in mouse olfactory epithelium tissue sections by Immunohistochemistry (PFA perfusion fixed frozen sections). Tissue samples were fixed by perfusion with 1% paraformaldehyde + lysine + periodate (1% PLP) and permeabilized and blocked with 10% donkey serum + 5% nonfat dry milk + 4% BSA + 1% triton X-100. The sample was incubated with primary antibody (1/200) for 1 hour at 27°C. An Alexa Fluor® 488-conjugated donkey anti-rat polyclonal (1/150) was used as the secondary antibody.

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

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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