abcam

ab47172

Anti-ICAM2 antibody [B-T1]

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.3 - 7.5 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing ICAM2 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P13598
Clone number	B-T1
Purity	Tissue culture supernatant
Specificity	Recognises the Intercellular Adhesion Molecule-2 (ICAM-2), a 55-65 kDa protein.
Light chain type	kappa

Reactivity data

Flow Cyt

Tested

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

Target data

See full target information ICAM2

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 on resting cells (PubMed:10077629, PubMed:1676048, PubMed:2497351). Also endothelial blood vessels receptor ligand of dendritic cell (DC) CD209 signaling receptor that mediates triggering transendothelial migration of DC presursors from blood into peripheral tissues and, subsequently, into lymphoid tissues (PubMed:11017109). Mediates adhesive interactions important for antigen presentation, lymphocyte recirculation, and other cellular interactions important for immune response and surveillance (Probable).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	Up to 6 months
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

This product was changed from ascites to tissue culture supernatant on 4th April 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	ICAM2 also known as IC2 or ICAM-2 is a cell surface glycoprotein with a molecular mass of approximately 55-65 kDa. It plays an important role in immune response. The protein belongs to the immunoglobulin superfamily and interacts specifically with integrin molecules. ICAM2 is expressed widely across many tissues including endothelial cells platelets and leukocytes. Its primary function involves facilitating

	stable adhesion between leukocytes and endothelial cells which is essential for leukocyte transmigration.
Biological function summary	ICAM2 helps in immune function by serving as an adhesion molecule. It does not form part of a larger protein complex but instead it acts independently to mediate interactions between cells. It contributes to leukocyte rolling and firm adhesion stages necessary for leukocyte extravasation. This function is important in immune surveillance and response to infection allowing immune cells to quickly migrate to sites of inflammation.
Pathways	ICAM2 operates in the leukocyte adhesion and transendothelial migration pathways. It interacts closely with integrins especially LFA-1 present on leukocytes and this interaction supports cell movement during immune responses. It also participates in signaling pathways that activate immune cells further aiding in the regulation of immune cell activity. These interactions make ICAM2 a critical component in immunological communication and signal transduction pathways.
Associated diseases and disorders	ICAM2 is associated with conditions involving immune dysfunction and inflammation. For instance abnormal expression of ICAM2 has been linked to inflammatory diseases such as atherosclerosis. Additionally it plays a role in the pathology of multiple sclerosis where it might influence the migration of immune cells across the blood-brain barrier. Its relationship with integrins highlights its potential relevance in therapeutic strategies to modulate immune responses in these diseases.

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

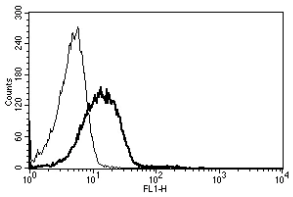
We do not recommend this combination. It is not covered by our product promise.

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:

1 product image



Flow Cytometry - Anti-ICAM2 antibody [B-T1] (ab47172)

ICAM2 Flow Cytometry staining using mouse Anti-ICAM2 antibody

Flow cytometry analysis staining ICAM2 in human lymphocytes using ab47172 monoclonal antibody.
This image was generated using the ascites version of the product.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.