abcam

ab288535

Anti-ICAM3 antibody [B-R1] - BSA and Azide free

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.3 - 7.5 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing U266 cell line protein. The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	B-R1
Purification technique	Affinity purification Protein A
Light chain type	kappa
Purification notes	Purified from cell culture supernatant

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/2 - 1/256
Notes	-

Target data

See full target information ICAM3

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 apoptotic neutrophil phagocytosis by macrophages (PubMed:1448173, PubMed:1448174, PubMed:23775590, PubMed:8325327, PubMed:8459213). Is also a ligand for integrin ITGAD/ITGB2 (PubMed:8777714). Ligand of CD209 on dendritic cells (DC) through an integrin-independent mechanism that requires Ca(2+) and that forms a first contact between DC and resting T cell, facilitating the downstream DC-T cell clustering process and DC-induced proliferation of resting T Cells (PubMed:10721994).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

Hybridoma: Myeloma X63/AG.8653 x Balb/c spleen cells.

Supplementary info

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

Activity summary	ICAM-3 also known as CD50 or Intercellular Adhesion Molecule 3 is a cell surface glycoprotein. It weighs approximately 120 kilodaltons. ICAM-3 is expressed majorly on leukocytes including lymphocytes monocytes and granulocytes. It is a member of the immunoglobulin superfamily that participates in cell-cell interaction particularly in immune response. By engaging with integrin receptors mainly LFA-1 ICAM-3 plays a role in leukocyte adhesion and signaling.
Biological function summary	ICAM-3 contributes to the immune system's functionality by mediating intercellular adhesion and cellular signaling. It acts as a ligand for the integrin LFA-1 found on leukocytes which facilitates the initial immune response. ICAM-3 is not a part of a larger complex but works closely with LFA-1 in homing and recruitment of immune cells to inflammation sites. Its interaction with LFA-1 also supports the formation of the immunological synapse an important step in T-cell activation and immune signaling.

Pathways	ICAM-3 contributes to both the immune response and leukocyte extravasation pathways. The interaction with LFA-1 places it within the context of immune cell signaling pathways impacting integrin-mediated signaling. Another pathway involving ICAM-3 is the cell adhesion pathway which is essential for maintaining proper immune surveillance and response. It collaborates with proteins like ICAM-1 in these pathways to ensure effective immune activity.
Associated diseases and disorders	ICAM-3 is associated with conditions such as inflammatory diseases and certain autoimmune disorders. Its expression levels and binding interactions can affect the severity and progression of such diseases. In autoimmune diseases ICAM-3 interaction with LFA-1 might contribute to the aberrant immune activation observed. Additionally studies have highlighted its role in infections where viruses exploit ICAM proteins to enter or spread showing its importance in pathogenesis-related conditions.

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

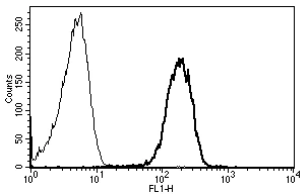
We do not recommend this combination. It is not covered by our product promise.

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1 product image



Flow Cytometry - Anti-ICAM3 antibody [B-R1] - BSA and Azide free (ab288535)

ICAM3 Flow Cytometry staining using mouse Anti-ICAM3 antibody

Flow cytometry overlay histogram of human lymphocytes labelling ICAM3 with ab288535 at 1/2 – 1/256 dilution (black, right) compared with an isotype control (grey, left). GAM-FITC at 1/800 dilution was used as the secondary antibody.

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