abcam

## ab239270

# Alexa Fluor® 488 Anti-ICAM3 antibody [MEM-171]

Anti-ICAM3 antibody [MEM-171] conjugated to Alexa Fluor® 488 - suitable for flow cytometry, and reacts with human samples. Clone [MEM-171] is a mouse monoclonal antibody.

Design your panel with our interactive flow cytometry panel builder. Click here.

## Key facts

| | |
|---|---|
| **Isotype** | IgG1 |
| **Host species** | Mouse |
| **Conjugation** | Alexa Fluor® 488 |
| **Excitation/Emission** | Ex: 495nm, Em: 519nm |
| **Storage buffer** | pH: 7.4 Preservative: 0.0975% Sodium azide Constituents: PBS |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | Cell preparation containing ICAM3 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P32942 |
| **Clone number** | MEM-171 |
| **Purification technique** | Size-exclusion chromatography |
| **Purification notes** | The purified antibody is conjugated with Alexa Fluor® 488 under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |

## Reactivity data

## Flow Cyt

**Tested**

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| **Species** | Human |
| **Dilution info** | 4 µL for $10^6$ Cells |
| **Notes** | (or 100 µl of whole blood) |

## Target data

See full target information ICAM3

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| **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

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| **Shipped at conditions** | Blue Ice |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Avoid freeze / thaw cycle, Store in the dark |

## Supplementary info

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

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| **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 |

| | |
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| | 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**

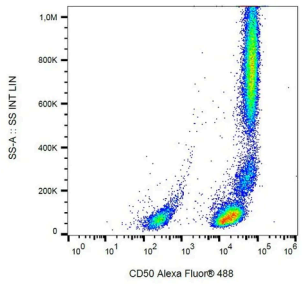
We do not recommend this combination. It is not covered by our product promise.

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.

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Terms & Conditions.

## 1 product image




# Flow Cytometry - Alexa Fluor® 488 Anti-ICAM3 antibody [MEM-171] (ab239270)

ICAM3 Flow Cytometry staining using mouse Anti-ICAM3 antibody

Flow cytometric analysis of human peripheral blood cells labeling ICAM3 using ab239270. Surface staining. Gated on leukocytes and platelets.

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