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Datasheet for ABIN192177

anti-ICAM-3/CD50 antibody (PE)

2 Images

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Overview

| | |
|--------------|---|
| Quantity: | 100 tests |
| Target: | ICAM-3/CD50 (ICAM3) |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This ICAM-3/CD50 antibody is conjugated to PE |
| Application: | Flow Cytometry (FACS) |

Product Details

| | |
|-----------------------------|--|
| Immunogen: | Human granulocytes |
| Clone: | MEM-171 |
| Isotype: | IgG1 |
| Specificity: | The antibody MEM-171 recognizes an extracellular epitope in the D2 domain of CD50 (ICAM-3), a 120-130 kDa type I membrane protein (immunoglobulin supergene family) expressed on leukocytes, endothelial cells and Langerhans cells, it is negative on platelets and erythrocytes. |
| Cross-Reactivity (Details): | Human |
| Purification: | Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

Target Details

| | |
|---------|---------------------|
| Target: | ICAM-3/CD50 (ICAM3) |
|---------|---------------------|

Target Details

Alternative Name: CD50 ([ICAM3 Products](#))

Background: Intercellular adhesion molecule 3,CD50 (intracellular adhesion molecule 3, ICAM-3) is a transmembrane glycoprotein expressed by leukocytes, that serves as a counter-receptor for the lymphocyte function-associated antigen (LFA)-1 integrin. Besides functioning as an adhesive molecule that mediates e.g. the contact between T cells and antigen presenting cells, ICAM-3 regulates affinity of LFA-1 for ICAM-1 and induces T cell activation and proliferation. ICAM-3 plays an essential role in the initiation of the immune response both on T cells and antigen presenting cells and interacts also with CD209 (dendritic cell-specific ICAM-3-grabbing nonintegrin, DC-SIGN), a C-type lectin of dendritic cells and macrophages, this process is involved in dialogue between dendritic cells and granulocytes.,ICAM-3, ICAM-R

Gene ID: 3385

UniProt: [P32942](#)

Application Details

Application Notes: Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

Comment: The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Restrictions: For Research Use only

Handling

Reconstitution: No reconstitution is necessary.

Buffer: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: **Do not freeze.**
Avoid prolonged exposure to light.

Storage: 4 °C

Handling

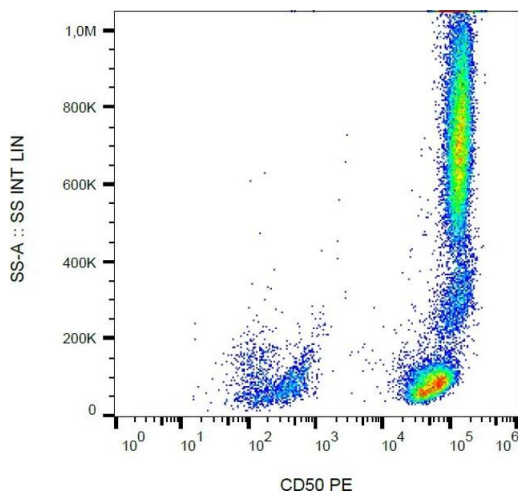
Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in: Linnebacher, Wienck, Boeck, Klar: "Identification of an MSI-H tumor-specific cytotoxic T cell epitope generated by the (-1) frame of U79260(FTO)." in: **Journal of biomedicine & biotechnology**, Vol. 2010, pp. 841451, (2010) ([PubMed](#)).

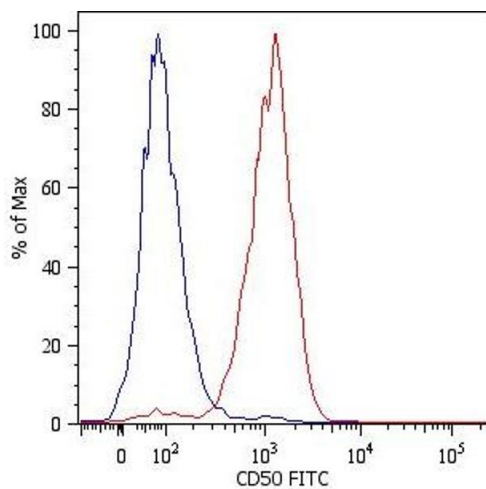
Cermák, Símová, Pintzas, Horejsí, Andera: "Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules." in: **The Journal of biological chemistry**, Vol. 277, Issue 10, pp. 7955-61, (2002) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD50 (MEM-171) PE.



Flow Cytometry

Image 2. Surface staining of JURKAT human leukemia T cell line with anti-human CD50 (MEM-171) FITC.