Datasheet for ABIN94168

anti-ICAM-3/CD50 antibody (Biotin)

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Overview

Quantity:	0.1 mg
Target:	ICAM-3/CD50 (ICAM3)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ICAM-3/CD50 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP)

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 biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin 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: Recommended dilution: 3-5 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

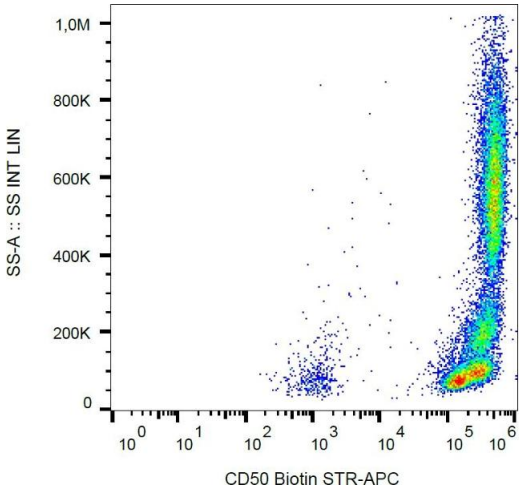
Product cited in:

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).

Filatov, Krotov, Zgoda, Volkov: "Fluorescent immunoprecipitation analysis of cell surface proteins: a methodology compatible with mass-spectrometry." in: **Journal of immunological methods**, Vol. 319, Issue 1-2, pp. 21-33, (2007) (PubMed).

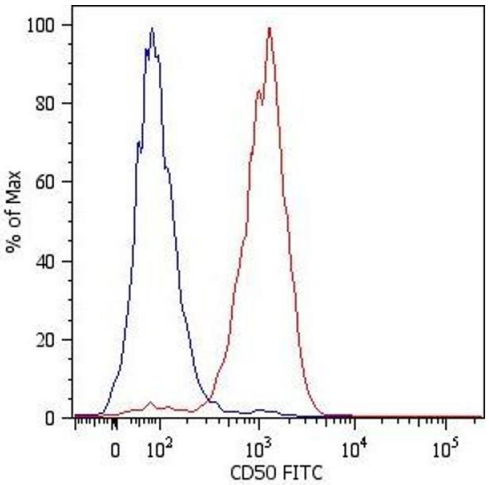
Cermák, Símová, Pintzas, Horejsí, Andera: "Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules." in: **The Journal of biological chemistry**, Vol. 277, Issue 10, pp. 7955-61, (2002) (PubMed).

Images



Flow Cytometry

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



Flow Cytometry

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