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Datasheet for ABIN2749029
anti-ICAM-3/CD50 antibody

4 Images

Overview

Quantity:	0.1 mg
Target:	ICAM-3/CD50 (ICAM3)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ICAM-3/CD50 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Functional Studies (Func)

Product Details

Immunogen:	Leukocytes of a patient suffering from LGL-type leukemia.
Clone:	MEM-04
Isotype:	IgG2b kappa
Specificity:	The antibody MEM-04 reacts with an extracellular epitope 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. The MEM-04 blocks DC-SIGN (CD209) binding to ICAM-3 (epitope in D1).
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Product Details

Endotoxin Level: Endotoxin level is less than 0.01 EU/ μ g of the protein, as determined by the LAL test.

Target Details

Target: ICAM-3/CD50 (ICAM3)

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: Functional application: The antibody MEM-04 blocks DC-SIGN (CD209) binding to ICAM-3 (epitope in D1).
Flow cytometry: Recommended dilution: 1-4 μ g/mL.
Immunohistochemistry (paraffin sections): Recommended dilution: 10 μ g/mL, positive tissue: tonsil.

Restrictions: For Research Use only

Handling

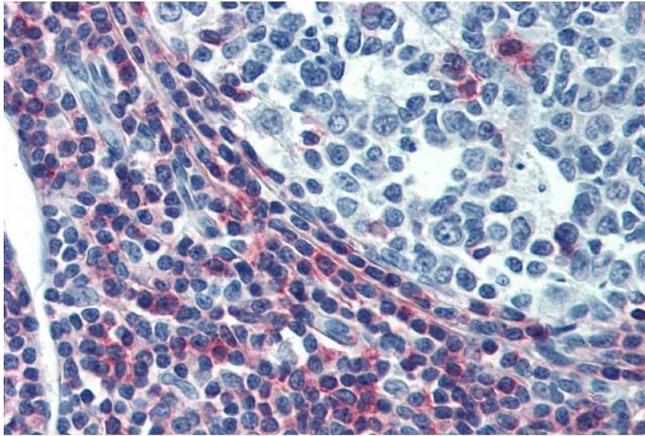
Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4

Preservative: Azide free

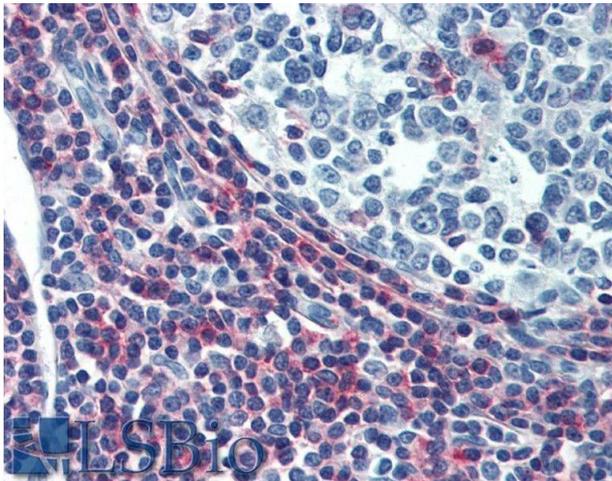
Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.



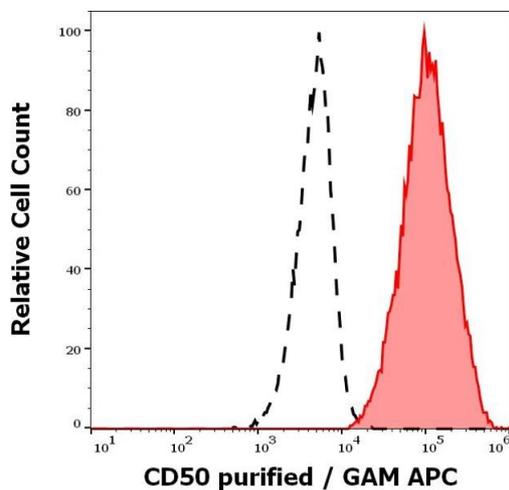
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining of human tonsil (paraffin sections) using anti-CD50 (MEM-04).



Immunohistochemistry

Image 2. Immunohistochemistry staining of human tonsil (paraffin sections) using anti-CD50 (MEM-04). Commercially tested by LifeSpan BioSciences.



Flow Cytometry

Image 3. Separation of leukocytes stained using anti-human CD50 (MEM-04) purified antibody (concentration in sample 3 µg/mL, GAM APC, red-filled) from leukocytes unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2749029.