CD27 monoclonal antibody, clone LT27 (FITC)

Catalog # MAB4399 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against native CD27.
Immunogen	Native purified CD27 from human peripheral blood lymphocytes.
Host	Mouse
Theoretical MW (kDa)	50-55
Reactivity	Human
Specificity	This antibody reacts with CD27 (T14), a 50-55 KDa type I transmembrane glycoprotein (member of the TNF-receptor superfamily) expressed on medullary thymocytes, peripheral T lymphocytes, some B lymphocytes and NK cells.
Form	Liquid
Conjugation	FITC
Isotype	IgG2a
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Flow Cytometry

Gene Info — CD27

Entrez GeneID	939
Gene Name	CD27
Gene Alias	MGC20393, S152, T14, TNFRSF7, Tp55
Gene Description	CD27 molecule
Omim ID	186711
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-kappaB and MAPK8/JNK. Adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling process of this receptor. CD27-binding protein (SIVA), a proapoptotic protein, can bind to this receptor and is thought to play an important role in the apoptosis induced by this receptor. [provided by RefSeq
Other Designations	CD27 antigen|CD27L receptor|T cell activation antigen CD27|T cell antivation antigen S152|tumor necrosis factor receptor superfamily, member 7

Publication Reference

- Blockade of protease-activated receptors on T cells correlates with altered proteolysis of CD27 by gingipains of Porphyromonas gingivalis.

  Yun LW, Decarlo AA, Hunter N.

  Clinical and Experimental Immunology 2007 Nov; 150(2):217.

- Expression of soluble CD27 and interleukins-8 and -10 in B-cell chronic lymphocytic leukemia: correlation with disease stage and prognosis.

  Kara IO, Sahin B, Gunesacar R.

  Advances in Therapy 2007 Jan; 24(1):29.

- CD27 in B-cell chronic lymphocytic leukemia. Cellular expression, serum release and correlation with other soluble molecules belonging to nerve growth factor receptors (NGFr) superfamily.

  Molica S, Vitelli G, Levato D, Crispino G, Dell'Olio M, Dattilo A, Matera R, Gandolfo GM, Musto P.

  Haematologica 1998 May; 83(5):398.

Pathway

- Cytokine-cytokine receptor interaction

Disease

- Asthma
- Bronchial Hyperreactivity
- Genetic Predisposition to Disease
- Hematologic Diseases
- Kidney Failure
- Multiple Myeloma
- Occupational Diseases