

Datasheet for ABIN2689133  
**anti-CD27 antibody (Biotin)**

## 6 Publications

[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	CD27
Reactivity:	Mouse, Rat
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This CD27 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS)

## Product Details

Brand:	BD Pharmingen™
Immunogen:	Armenian hamster fibroblast line ARH012 transfected with mouse Cd27 cDNA
Clone:	LG-3A10
Isotype:	IgG1 kappa
Characteristics:	<p>The LG.3A10 antibody reacts with CD27, a lymphocyte-restricted member of the Tumor Necrosis Factor Receptor family which binds to CD70. The CD27 Molecule is a 45- kDa transmembrane glycoprotein which is constitutively expressed by lymphocytes of the T lineage: virtually all thymocytes and over 90 % of peripheral T cells bearing both <math>\alpha\beta</math> and <math>\gamma\delta</math> T-cell receptors. CD27 cooperates with the pre-TCR in mediating thymocyte differentiation and expansion. In addition, one to ten percent of mature peripheral B cells express CD27, and CD27's role in the differentiation of human plasma cells has been studied. Mouse NK cells, freshly isolated and IL-2-activated, also express CD27. In the bone marrow, CD27 is found on a</p>

## Product Details

progenitor population which provides short-term hematopoietic reconstitution. Cells of the myeloid lineage do not express CD27. Cross-linked LG.3A10 mAb has been reported to amplify the proliferative response of purified T lymphocytes to suboptimal mitogenic stimulation<sup>1</sup> and to enhance NK-cell proliferation and IFN- $\gamma$  production. In contrast, non-cross-linked LG.3A10 mAb inhibits CD3-induced pre-T cell development by interfering with the receptor-ligand interaction. This hamster mAb to a mouse leukocyte antigen has been observed to cross-react with a similar population of rat leukocytes. Expression of CD27 on mouse splenocytes. C57BL/6 splenocytes were stained simultaneously with PE-conjugated anti-mouse CD3e mAb 500A2 (Cat. No. 553240) and biotinylated mAb LG.3A10 (right panel), followed by Avidin-FITC (Cat. No. 554057). Flow cytometry was performed on a BD FACScan™ flow cytometry system.

BD Pharmingen™ Biotin Hamster Anti-Mouse CD27 - Biotin - Clone LG.3A10 - Isotype Armenian Hamster IgG1,  $\kappa$  - Reactivity Ms, Rat - 0.1 mg

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
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## Target Details

Target:	CD27
Alternative Name:	CD27 ( <a href="#">CD27 Products</a> )
Pathways:	<a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Cancer Immune Checkpoints</a>

## Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

Concentration:	0.5 mg/mL
Buffer:	Aqueous buffered solution containing $\leq 0.09$ % 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:	The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was

## Handling

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removed.

Storage: 4 °C

Storage Comment: Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

## Publications

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Product cited in: Litton, Sander, Murphy, OGarra, Abrams: "Early expression of cytokines in lymph nodes after treatment in vivo with Staphylococcus enterotoxin B." in: **Journal of immunological methods**, Vol. 175, Issue 1, pp. 47-58, (1994) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)