

Anti-Mouse CD27 / TNFRSF7 Antibody (FITC)



Catalog Number: 50110-R012-F

General Information	
Immunogen:	Recombinant Mouse CD27 protein (Catalog#50110-M08H)
Reagents:	FITC-conjugated rabbit monoclonal antibody
Specificity:	Mouse CD27 / TNFRSF7
Clone ID:	012
Ig Type:	Rabbit IgG
Applications:	Flow Cytometry
Concentration:	5 µl/Test, 0.2 mg/ml
Formulation:	Aqueous solution containing 0.5% BSA and 0.1% sodium azide
Storage:	2 °C - 8 °C in the dark

Preparation

This antibody was obtained from a rabbit immunized with purified, recombinant Mouse CD27 / TNFRSF7 (rM CD27 / TNFRSF7; Catalog#50110-M08H; NP_001028298.1; Met 1-Arg 182) and conjugated with FITC under optimum conditions, the unreacted FITC was removed.

Storage

This antibody is stable for 12 months from date of receipt when stored at 2°C - 8°C. Protected from prolonged exposure to light. **Do not freeze !**

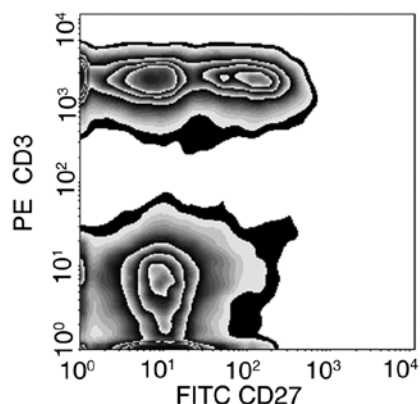
Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal

Applications

Flow Cytometry –

Expression of CD27 on mouse splenocytes.

BABL/c splenocytes were stained simultaneously with FITC-conjugated mAb R012 and PE-conjugated anti-mouse CD3 mAb (BD Pharmingen™Cat. No. 553064).



Flow cytometric analysis of anti-human CD27 expression on human whole blood lymphocytes.

Flow cytometry was performed on a BD FACSCalibur flow cytometry system.

Please refer to www.sinobiological.com/Flow-Cytometry-FACS-Protocols-a-750.html for technical protocols.

Specificity

Mouse CD27 / TNFRSF7

Has cross-reactivity in ELISA with

Human CD27

Human BAFF

No cross-reactivity in ELISA with

Human TNFRSF8

Human CD40

Human DR6

Human TNFRSF10D

Mouse HVEM

Mouse FAS

Mouse TNFRSF10b

Human 4-1BB

Human TNFR1

Human TNFR2

Human RELT

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>

Background

CD27, also known as TNFRSF7, is a member of the TNF-receptor superfamily limited to cells of the lymphoid lineage, and exists as both a dimeric glycoprotein on the cell surface and as a soluble protein in serum. As a T and B cell co-stimulatory molecule, the activity of CD27 is governed by its TNF-like ligand CD70 on lymphocytes and dendritic cells. The CD27-CD70 interaction is required for Th1 generation responses to differentiation signals and long-term maintenance of T cell immunity, and meanwhile, plays a key role in regulating B-cell differentiation, activation and immunoglobulin synthesis. The CD27 receptor transduces signals and subsequently leads to the activation of NF-kappaB and MAPK8/JNK, and during which, adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling processes. In addition, a proapoptotic protein named SIVA, is capable of binding the cytoplasmic tail of CD27 and exerts action in the process of apoptosis.

Reference

1. Borst. J. et al., 2005, Curr. Opin. Immunol. 17: 275-281.
2. Kobata. T. et al., 1995, Proc. Natl. Acad. Sci. 92: 11249-53.
3. Jacquot, S., 2000, Immunol Res. 21:23-30.
4. Arens, R. et al., 2004, J. Immunol. 173: 3901-3908.
5. Akiba, H. et al., 1998, J. Biol. Chem. 273: 13353-13358.
6. Fortin, A. et al., 2004, J. Biol. Chem. 279: 28706-28714.