

PE/Cyanine5 anti-human CD27

Catalog # / 2382190 / 100 tests

Size: 2382185 / 25 tests

Clone: M-T271

Isotype: Mouse IgG1, κ

Immunogen: Human T cells from a T-ALL patient.

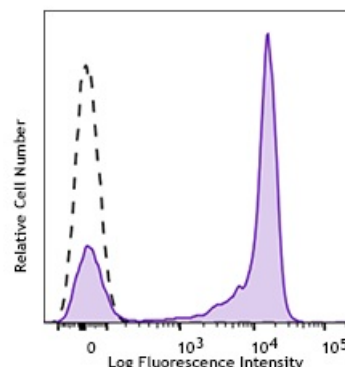
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine5 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Workshop Number: V 5T CD27.03

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD27 (clone M-T271) PE/Cyanine5 (filled histogram) or mouse IgG1, κ PE/Cyanine5 isotype control (open histogram).

Applications:

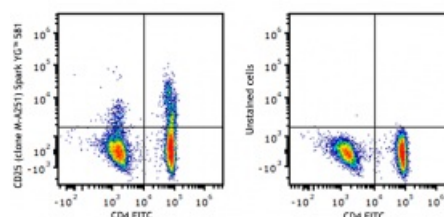
Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of formalin-fixed paraffin-embedded frozen tissue sections¹, immunofluorescent staining², and ELISA³.

Application References:

1. Ma S, et al. 2011. *J. Virol.* 85:165. (IHC)
2. Manzo A, et al. 2008. *Arthritis Rheum.* 11:3377. (IF)
3. Kato K, et al. 2007. *Exp. Hematol.* 35:434. (ELISA)



Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and anti-human CD25 (clone M-A251) Spark YG™ 581 (left) or anti-human CD4 FITC only (right).

Description: CD27 is a 50-55 kD type I membrane protein also known as S152 and T14. It is a lymphocyte-specific member of the TNF-receptor superfamily. CD27 is expressed on medullary thymocytes, virtually all mature T cells, some B cells, and NK cells. CD27 binds to CD70, and plays a role in costimulation of T cell activation and regulation of B cell differentiation and proliferation. The cytoplasmic domains of CD27 have also been shown to interact with TRAF2 and TRAF5 to elicit NF- κ B and SAPK/JNK activation.

Antigen
References:

1. Knapp W, *et al.* 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press.
2. Schlossman S, *et al.* 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press.
3. Hintzen R, *et al.* 1994. *Immunol. Today* 15:307.
4. Agematsu K, *et al.* 1995. *J. Immunol.* 154:3627.