

**PE/Cyanine5 anti-human CD27**

**Catalog # / Size:** 2382185 / 25 tests  
2382190 / 100 tests

**Clone:** M-T271

**Isotype:** Mouse IgG1, κ

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

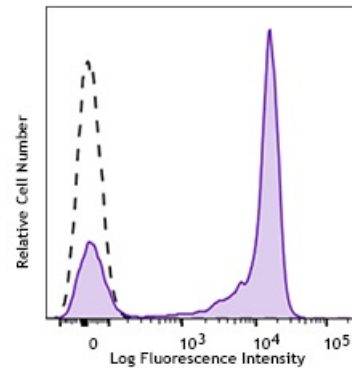
**Reactivity:** Human, Non-human primate, Other

**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 μL per million cells in 100 μL staining volume or 5 μL per 100 μL 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 sections<sup>1</sup>, immunofluorescent staining<sup>2</sup>, and ELISA<sup>3</sup>.

- 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)

**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-κB 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.