

**PE anti-human CD27**

**Catalog # / Size:** 2114040 / 100 tests  
 2114035 / 25 tests  
 2114210 / 100 µg

**Clone:** O323

**Isotype:** Mouse IgG1, κ

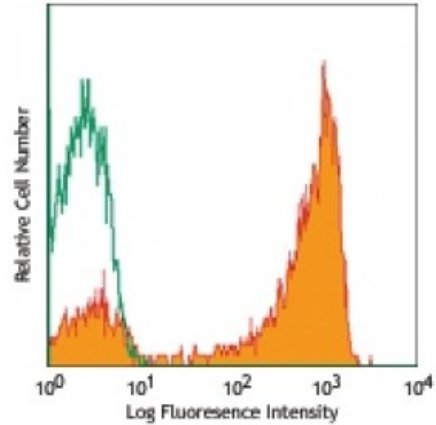
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

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

**Workshop Number:** IV T-186

**Concentration:** microg sizes: 0.2 mg/ml  
 test sizes: lot-specific



Human peripheral blood lymphocytes stained with O323 PE

**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 using the microg size, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:**

- Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.
- Correia DV, *et al.* 2011. *Blood* 118:992. (FC) [PubMed](#)
- Soriano-Sarabia N, *et al.* 2014. *J Virol.* 88:14070. [PubMed](#)

**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 an important 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:**

- Hintzen R, *et al.* 1994. *Immunol. Today* 15:307.
- Agematsu K, *et al.* 1995. *J. Immunol.* 154:3627.