

**Brilliant Violet 510™ anti-human CD27**

**Catalog # / Size:** 2114180 / 100 tests  
2114175 / 25 tests

**Clone:** O323

**Isotype:** Mouse IgG1, κ

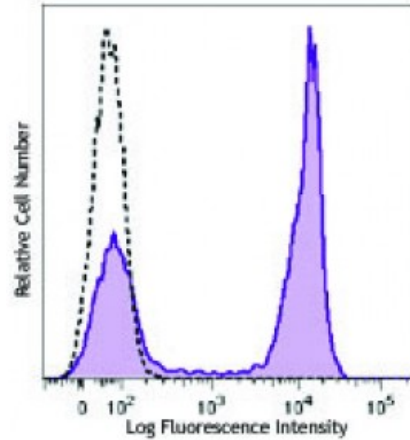
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 510™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 510™ and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

**Workshop Number:** IV T-186

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with CD27 (clone O323) Brilliant Violet 510™.

**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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 510™ excites at 405 nm and emits at 510 nm. The bandpass filter 510/50 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 510™ is a trademark of Sirigen Group Ltd.

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**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](#)

**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- $\kappa$ B and SAPK/JNK activation.

- Antigen** 1. Hintzen R, *et al.* 1994. *Immunol. Today* 15:307.  
**References:** 2. Agematsu K, *et al.* 1995. *J. Immunol.* 154:3627.