

**Brilliant Violet 421™ anti-human CD27**

**Catalog # / Size:** 2114120 / 100 tests  
2114115 / 25 tests

**Clone:** O323

**Isotype:** Mouse IgG1, κ

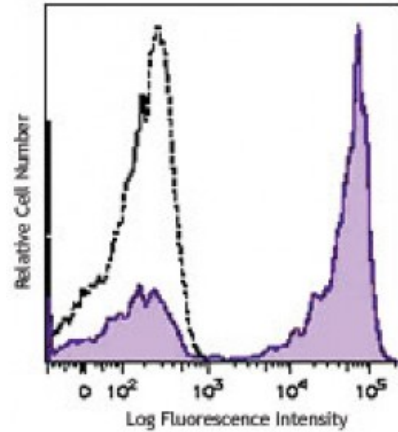
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 421™ 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 421™ (filled histogram) or mouse IgG1 Brilliant Violet 421™ 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 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 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ 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](#)
- Zinocker S, *et al.* 2015. *J Immunol.* 194:929. [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.