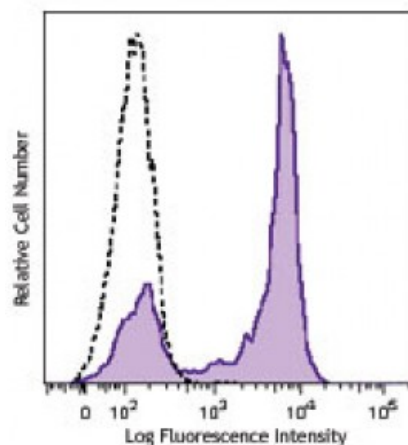


Brilliant Violet 570™ anti-human CD27**Catalog # / Size:** 2114125 / 25 tests**Clone:** O323**Isotype:** Mouse IgG1, κ **Reactivity:** Human**Preparation:** The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 570™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 570™ 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 570™ (filled histogram) or mouse IgG1, κ Brilliant Violet 570™ 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 570™ excites at 405 nm and emits at 570 nm. The bandpass filter 585/42 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 570™ is a trademark of Sirigen Group Ltd.

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Application References:

1. Knapp W, *et al.* Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. Correia DV, *et al.* 2011. *Blood* 118:992. (FC) [PubMed](#)
3. Cartwright EK, *et al.* 2014. *J. Immunol.* 192:4666. [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- κ B and SAPK/JNK activation.

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