

Brilliant Violet 785™ anti-human CD27

Catalog # / Size: 2114160 / 100 tests
2114155 / 25 tests

Clone: O323

Isotype: Mouse IgG1, κ

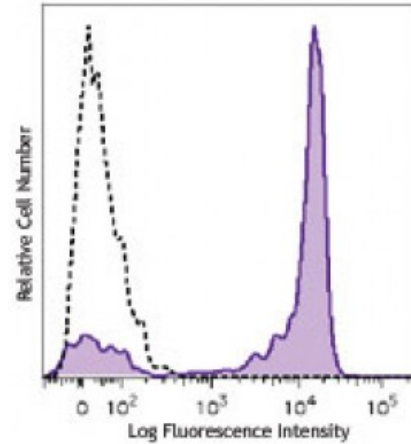
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 785™ under optimal conditions. The solution is free of unconjugated Brilliant Violet 785™ 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 785™.

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 785™ excites at 405 nm and emits at 785 nm. The bandpass filter 780/60 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 785™ 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](#)
- Buggert M, *et al.* 2014. *J. Immunol.* 192:2099. [PubMed](#)
- Woda M, *et al.* 2014. *J Immunol Methods.* 416:167. [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.