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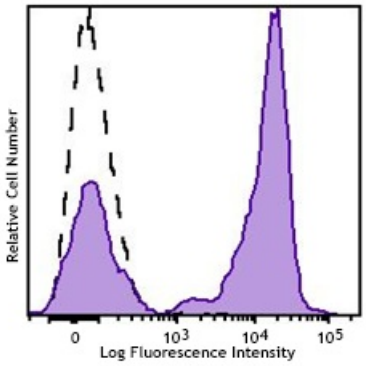
Product Data Sheet

Brilliant Violet 750™ anti-human CD27

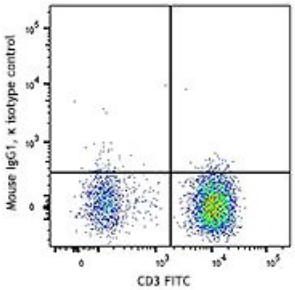
Catalog # / Size:	2114250 / 100 tests 2114245 / 25 tests
Clone:	O323
Isotype:	Mouse IgG1, κ
Immunogen:	Armenian hamster fibroblast line ARHO12 transfected with mouse CD27 cDNA
Reactivity:	Human, Non-human primate, Other
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ under optimal conditions.
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, filled histogram) Brilliant Violet 750™ or mouse IgG1 Brilliant Violet 750™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry



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

Brilliant Violet 750™ excites at 405 nm and emits at 750 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 750™ is a trademark of Sirigen Group Ltd.

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Application Notes: Additional reported applications (for the relevant formats) include: functional assay[1,3] and immunohistomecial staining of acetone-fixed frozen sections[2].

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

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:

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

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