SONY

Product Data Sheet

PE/Dazzle™ 594 anti-human CD27

Catalog # / Size: 2114215 / 25 tests
2114220 / 100 tests

Clone: O323

Isotype: Mouse IgG1, κ

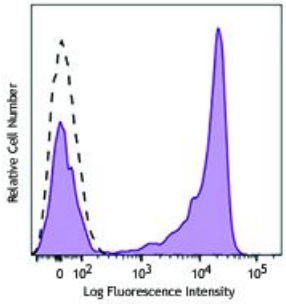
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 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



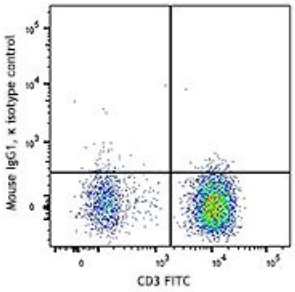
Human peripheral blood lymphocytes were stained with CD27 (clone O323) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κPE/Dazzle™ 594 isotype control (open histogram).

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 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.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.



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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