SONY

Product Data Sheet

PE/Cyanine7 anti-human CD27 Recombinant

Catalog # / Size: 2566035 / 25 tests
2566040 / 100 tests

Clone: QA17A18

Isotype: Mouse IgG1, κ

Immunogen: Human CD7 recombinant protein

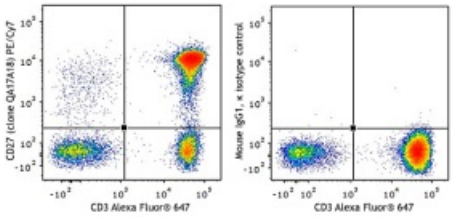
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Workshop Number: HCDM listed

Concentration: Lot-specific



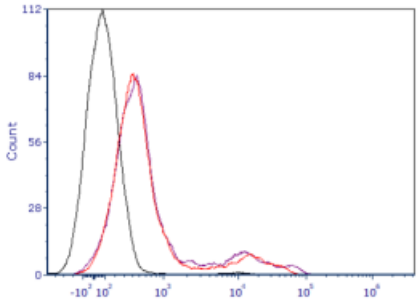
Human peripheral blood lymphocytes were stained with True-Stain Monocyte Blocker™ (Cat. No. 426103), CD3 Alexa Fluor® 647, and CD27 (clone QA17A18) PE/Cyanine7 (left) or Mouse IgG1, κPE/Cyanine7 isotype control (right).

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 in 100 µl staining volume or 5 µl per 100 µl of whole blood.

Application Notes: Clone QA17A18 does not block clones 0323, M-T271, or LG.3A10, indicating a unique epitope.



One day old C57BL/6 mouse splenocytes were stained with Zombie R718™ and analyzed before fixation (purple) or after fixation and permeabilization (red). Cells alone, without Zombie R718™ staining, are indicated in black.

Application References:

1. Stewart M, *et al.* 1995. *Curr Opin Cell Biol.* 7:690.
2. Miller LJ, *et al*. 1986. *J Immunol*. 137(9):2891.

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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 a 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. Knapp W, *et al.* 1989. Immunol. Today 10:253-8
2. Schlossman S, *et al.* 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press.
3. Hintzen R, *et al.* 1994. *Immunol. Today* 15:307.
4. Agematsu K, *et al.* 1995. *J. Immunol.* 154:3627.

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