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Product Data Sheet

APC/Fire™ 810 anti-human CD27 Recombinant

Catalog # / Size: 2566065 / 25 tests
2566070 / 100 tests

Clone: QA17A18

Isotype: Mouse IgG1, κ

Immunogen: β2 integrins from granulocytes

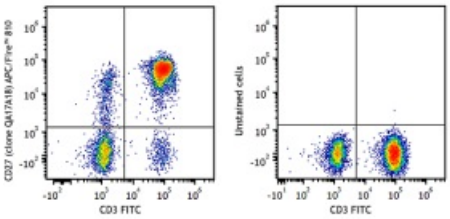
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 810 under optimal conditions.

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

Workshop Number: V CD08.10

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD3 FITC and human CD27 (clone QA17A18) APC/Fire™ 810 (left) or CD3 FITC only (right).

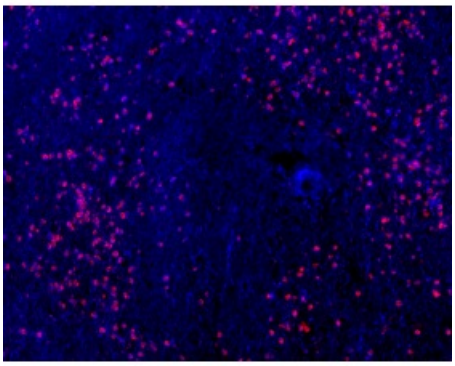
Applications:

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. It is recommended that the reagent be titrated for optimal performance for each application.

* APC/Fire™ 810 has a maximum excitation of 650 nm and a maximum emission of 810 nm.

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



Human paraffin-embedded spleen tissue slices were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Sodium Citrate H.I.E.R., 1x pH 6.0 at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween 20 twice for five minutes and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the tissue was stained with 10 µg/ml of purified anti-human CD66b (clone 6/40c) antibody overnight at 4°C. On the next day, tissue was incubate with Alexa Fluor® 594 Goat anti-mouse IgG (clone poly4053) antibody (red). Nuclei were counter-stained with DAPI (blue). The image was scanned with a 10X objective and stitched with MetaMorph® software.

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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.

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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