

APC/Fire™ 750 anti-human CD123

Catalog # / 2583580 / 100 tests
Size: 2583575 / 25 tests

Clone: S18016F

Isotype: Mouse IgG1, κ

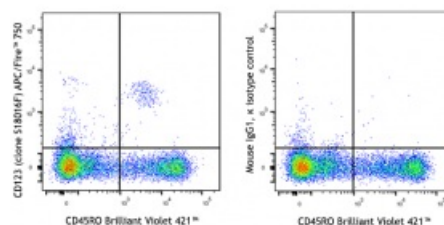
Immunogen: Hu CD123 transfectants

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with anti-human CD45RO Brilliant Violet 421™ and anti-human CD123 (clone S18016F) APC/Fire™ 750 (left) or mouse IgG1, κ APC/Fire™ 750 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 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

Application Notes: Positive staining is stimulation and donor dependent. Upon stimulation at high concentrations of H₂O₂ some staining of B cells can be seen.

Description: CD123 is the 70 kD transmembrane α chain of the IL-3 receptor. Alone, CD123 binds IL-3 with low affinity; when CD123 associates with CDw131 (common β chain), it binds IL-3 with high affinity. CD123 does not transduce intracellular signals upon binding IL-3 and requires the β chain for this function. CD123 is expressed by myeloid precursors, macrophages, dendritic cells, mast cells, basophils, megakaryocytes, and some B cells.

Antigen References: 1. Miyajima A, et al. 1993. *Blood* 82:1960.