Product Data Sheet

APC/Fire™ 750 anti-human CD7

Catalog # / 2315605 / 25 tests

Size: 2315610 / 100 tests

Clone: CD7-6B7

Isotype: Mouse IgG2a, κ **Immunogen:** KG1a cell line

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with

APC/Fire™ 750 under optimal

conditions.

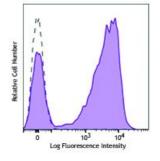
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Workshop Number: IV T-164

Concentration: Lot-specific



Human peripheral blood lymphocytes were stained with CD7 (clone CD7-6B7) APC/Fire™ 750 (closed histogram) or mouse IgG2a, κ isotype control APC/Fire

750™ (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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.

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

emission of 787 nm.

Application Notes:

Additional reported (for the relevant formats) applications include

proteogenomics².

Application References:

1. Knapp W, et al. 1989. Leucocyte Typing IV:White Cell Differentiation Antigens. Oxford University Press.

2. Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG)

Description: CD7 is a 40 kD type I transmembrane glycoprotein also known as gp40. It is

a member of the immunoglobulin superfamily found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL) and some acute myeloid leukemia (AML) cells. CD7 crosslinking induces a calcium flux in T lymphocytes, presumably as a result of cytoplasmic domain association with PI3-kinase. CD7 costimulation can induce cytokine secretion and modulate

cellular adhesion.

Antigen References:

1. Barclay N, et al. 1993. The Leucocyte Antigen FactsBook. Academic Press Inc. San Diego.

Stillwell R, et al. 2001. Immunol. Res. 24:31.
Rabinowich H, et al. 1994. J. Immunol. 152:517.