Product Data Sheet

APC/Fire™ 750 anti-human CD137 (4-1BB)

Catalog # / 2149170 / 100 tests

Size: 2149165 / 25 tests

Clone: 4B4-1

Isotype: Mouse IgG1, ĸ

Ectodomain of recombinant human 4-Immunogen:

1BB fusion protein

Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity

chromatography and conjugated with

APC/Fire™ 750 under optimal

conditions.

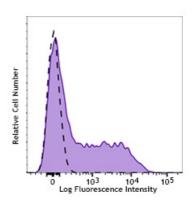
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

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

Workshop Number: VI C-7

Concentration: Lot-specific



PHA-stimulated (3 days) human peripheral blood mononuclear cells stained with CD137 (clone 4B4-1) APC/Fire™ 750 (filled histogram) or mouse IgG1, κ APC/Fire[™] 750 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 in 100 μl staining volume or 5 μl per

100 µl of whole blood.

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

emission of 787 nm.

Application Notes:

Additional reported applications (for the relevant formats) include:

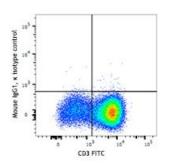
immunoprecipitation^{1,4}, inhibition of cytokine production^{2,3}, and ELISA.

For most successful

immunofluorescent staining results, it may be important to maximize signal over background by using a relatively bright fluorochromeantibody conjugate (Cat. No. 309804) or by using a high sensitivity, threelayer staining technique (e.g.,

including a biotinylated anti-mouse IgG second step (Cat. No. 405303), followed by Streptavidin-PE (Cat. No.

405204)).



Human peripheral blood lymphocytes were stained with anti-human CD4 FITC and antihuman CD25 (clone M-A251) Spark YG™ 581 (left) or antihuman CD4 FITC only (right).

Application References:

- 1. Garni-Wagner B, et al. 1996. Cell. Immunol. 169:91. (IP)
- 2. Salih HR, et al. 2000. J. Immunol. 165:2903. (FA)
- 3. Kienzle G, et al. 2000. Int. Immunol. 12:73. (FA)
- 4. Langstein J, et al. 1998. J. Immunol. 160:2488. (IP)
- **Description:** CD137 is a 39 kD transmembrane protein also known as 4-1BB. It is

expressed on activated T cells. CD137 is a type I membrane protein and a member of the tumor necrosis factor receptor superfamily. CD137 appears to be important for T cell proliferation and survival, and induces monocyte

activation through its interaction with 4-1BB ligand.

Antigen

- 1. Gruss H, et al. 1995. Blood 85:3378.
- **References:** 2. Sica G, et al. 2000. Adv. Exp. Med. Biol. 465:355.
 - 3. Alderson M, et al. 1994. Eur. J. Immunol. 24:2219.
 - 4. Schwarz H, et al. 1996. Blood 87:2839.