Alexa Fluor® 647 anti-human CD137 (4-1BB)

Catalog # / Size: 2149115 / 25 tests

2149120 / 100 tests

Clone: 4B4-1

Isotype: Mouse IgG1, κ

Immunogen: Ectodomain of recombinant human 4-

1BB fusion protein

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with Alexa Fluor® 647 under optimal

conditions.

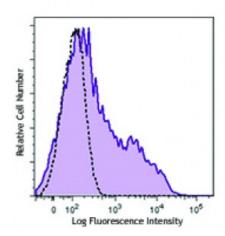
Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

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

Workshop Number: VI C-7

Concentration: Lot-specific



PHA-stimulated (three days) human peripheral blood lymphocytes were stained with CD137 (clone 4B4-1) Alexa Fluor® 647 (filled histogram) or mouse IgG1, κ Alexa Fluor® 647 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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 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 fluorochrome-antibody conjugate (Cat. No. 309804) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated anti-mouse IgG second step (Cat. No.

405303), followed by Streptavidin-PE (Cat. No. 405204)).

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: CDw137 is a 39 kD transmembrane protein also known as 4-1BB. It is expressed

on activated T cells. CDw137 is a type I membrane protein and a member of the tumor necrosis factor receptor superfamily. CDw137 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, <i>et al.</i> 1994. <i>Eur. J. Immunol.</i> 24:2219. 4. Schwarz H, <i>et al.</i> 199
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