

Product Data Sheet

APC anti-human CD137 (4-1BB)

Catalog # / Size: 309809 / 25 tests

309810 / 100 tests

Clone: 4B4-1

Isotype: Mouse IgG1, κ

Workshop Number: VI C-7

Immunogen: Ectodomain of recombinant human 4-1BB fusion protein

Reactivity: Human, Cross-Reactivity: Chimpanzee, Baboon, Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography, and conjugated with

APC under optimal conditions. The solution is free of unconjugated APC and

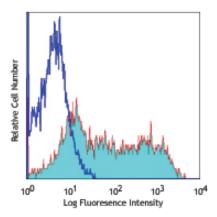
unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and

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

Storage: The antibody solution should be stored undiluted at 4°C and protected from

prolonged exposure to light. Do not freeze.



PHA-stimulated (3 days) human peripheral blood mononuclear cells stained with 4B4-1 APC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test

size products are transitioning from 20 μl to 5 μl per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μl staining volume or per 100 μl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at

www.biolegend.com/testsize regarding the test size change.

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 SAv-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)

4. Van Nuffel AM, *et al.* 2012. *J Immunol Methods*. 377:23. PubMed.

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 References: 1. Gruss H, et al. 1995. Blood 85:3378.

Sica G, et al. 2000. Adv. Exp. Med. Biol. 465:355.
Alderson M, et al. 1994. Eur. J. Immunol. 24:2219.

4. Schwarz H, et al. 1996. Blood 87:2839.

Related Products: Product Clone Application

Cell Staining Buffer FC, ICC, ICFC RBC Lysis Buffer (10X) FC, ICFC APC Mouse IgG1, κ Isotype Ctrl (FC) MOPC-21 FC

Human TruStain FcX™ (Fc Receptor Blocking Solution) FC, ICC, ICFC



