

Product Data Sheet

4B4-1 PE

PE anti-human CD137 (4-1BB)

Catalog # / Size:	309803 / 25 tests 309804 / 100 tests	
Clone:	4B4-1	Relative Coll Number
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 PE under optimal conditions. The solution is free of unconjugated PE 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.	10 ⁰ 10 ¹ 10 ² 10 ³ 10 Log Fluoresence Intensity
Annlication	C •	PHA stimulated (3 days) peripheral blood mononuclear cells stained with

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)). 1. Garni-Wagner B, et al. 1996. Cell. Immunol. 169:91. (IP) Application References: 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 References: 1. Gruss H, et al. 1995. Blood 85:3378. 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. **Related Products: Product** Clone Application PE Mouse IgG1, κ Isotype Ctrl MOPC-21 FC, ICFC Cell Staining Buffer FC, ICC, ICFC RBC Lysis Buffer (10X) PE anti-human 4-1BB Ligand (CD137L) FC, ICFC FC FC, ICC, ICFC 5F4 Human TruStain FcX™ (Fc Receptor Blocking Solution)

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