

Product Data Sheet

Purified anti-human CD137 (4-1BB)

Catalog # / Size: 309801 / 25 µg

309802 / 100 μg

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.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.

Applications:

Applications: FC - Quality tested IP, ELISA - Reported in the literature

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent

staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is $\leq 0.5~\mu g$ per million cells in 100 μl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

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)

Salih HR, et al. 2000. J. Immunol. 165:2903. (FA)
 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.

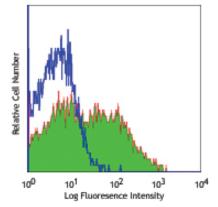
Related Products: Product Clone Application

FC, ICFC, ICC, IF, IHC, IP, WB Purified Mouse IgG1, κ Isotype Ctrl MOPC-21 Biotin Goat anti-mouse IgG (minimal x-reactivity) Poly4053 FC, ELISA, IHC, IF, WB

PE Goat anti-mouse IgG (minimal x-reactivity) Poly4053 Cell Staining Buffer

FC, ICC, ICFC FC, ICFC FC RBC Lysis Buffer (10X)
Purified anti-human 4-1BB Ligand (CD137L)

5F4



PHA-stimulated (3 days) human peripheral blood mononuclear cells stained with purified 4B4-1, followed by biotinylated anti-mouse IgG and Sav-PE



