Biotin anti-human CD137 (4-1BB)

Catalog # / Size: 2149030 / 100 μg

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 biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide.

Workshop

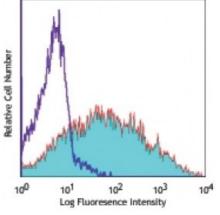
VI C-7

Number:

Concentration: 0.5

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

followed by Sav-PE



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 ≤ 0.5 microg per million cells in 100 microL volume or 100 microL 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 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 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. 199