Brilliant Violet 750[™] anti-human CD137 (4-1BB)

Catalog # / Size:	2149215 / 25 tests 2149220 / 100 tests	
Clone:	4B4-1	i 🛝
lsotype:	Mouse IgG1, к	
Immunogen:	Ectodomain of recombinant human 4- 1BB fusion protein	Relative Cell Number
Reactivity:	Human, Non-human primate, Other	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 750™ under optimal conditions.	^d 0 Log Fluorescence Intensity
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)	PHA-stimulated (three days) human peripheral blood
Workshop Number:	VI C-7	lymphocytes were stained with CD137 (4-1BB) (clone 4B4-1) Brilliant Violet 750™ (filled
Concentration:	Lot-specific	histogram) or mouse IgG1, κ Brilliant Violet 750™ isotype control (open histogram).

Applications:

- Applications: Flow Cytometry
- Recommended Each lot of this antibody is guality control tested by immunofluorescent Usage: staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells in 100 μ L staining volume or 5 μ L per 100 μ L of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 750[™] excites at 405 nm and emits at 750 nm. The bandpass filter 780/60 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 750[™] is a trademark of Sirigen Group Ltd.

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Application Additional reported applications (for the relevant formats) include: Notes: 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 fluorochromeantibody conjugate (Cat. No. 2149020) or by using a high sensitivity, threelayer staining technique (e.g., including a biotinylated anti-mouse IgG second step (Cat. No. 2626515), followed by Streptavidin-PE (Cat. No. 2626020)).

Application References:	 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) Langstein J, et al. 1998. J. Immunol. 160:2488. (IP)
Description:	CD137 is a 39 kD transmembrane protein also known as 4-1BB. It is expressed on activated T cells. CD137 is a type I membrane protein and a member of the tumor necrosis factor receptor superfamily. CD137 appears to be important for T cell proliferation and survival, and induces monocyte activation through its interaction with 4-1BB ligand.
Antigen References:	 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. Schwarz H, et al. 1996. Blood 87:2839.