

Brilliant Violet 421™ anti-human CD137 (4-1BB) Antibody

Catalog# / Size	300819 / 25 tests 300820 / 100 tests
Clone	S18014C
Regulatory Status	RUO
Other Names	4-1BB, ILA, CDw137, TNFRSF9
Isotype	Mouse IgG1, κ
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.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Recombinant human CD137-Fc
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421™ under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	<p>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 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 421™ excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
RRID	AB_3662208 (BioLegend Cat. No. 300819) AB_3662208 (BioLegend Cat. No. 300820)

Antigen Details

Structure	TNFR superfamily, type I transmembrane protein, 30 kD
Distribution	Activated T cells
Function	T cell costimulation
Ligand/Receptor	4-1BB ligand (CD137L)
Cell Type	Lymphocytes, NK cells, NKT cells, T cells
Biology Area	Costimulatory Molecules, Immuno-Oncology, Immunology, Signal Transduction
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Gruss HJ & Dower SK. 1995. <i>Blood</i>. 85:3378-404. 2. Sica G & Chen L. 2000. <i>Adv Exp Med Biol</i>. 465:355-62. 3. Alderson MR, et al. 1994. <i>Eur J Immunol</i>. 24:2219-27. 4. Schwarz H, et al. 1996. <i>Blood</i> 87:2839-45.

Gene ID [3604](#)

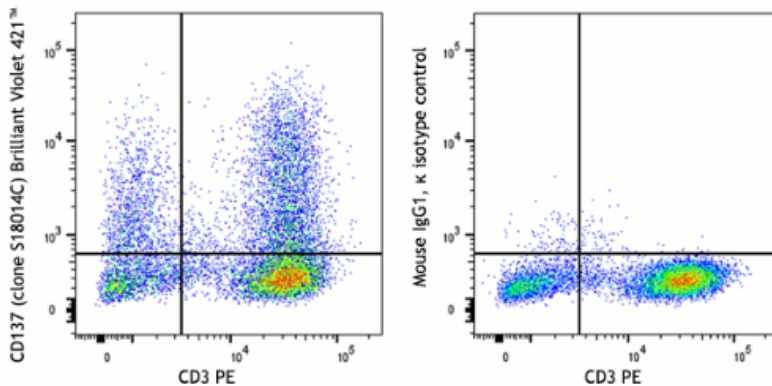
Related Protocols

- [Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

PE anti-human CD137 (4-1BB), Purified anti-human CD137 (4-1BB) Antibody, Spark Red™ 718 anti-human CD137 (4-1BB), KIRAVIA Blue 520™ anti-human CD137 (4-1BB), APC anti-human CD137 (4-1BB), PE/Dazzle™ 594 anti-human CD137 (4-1BB), APC/Fire™ 750 anti-human CD137 (4-1BB), PE/Cyanine7 anti-human CD137 (4-1BB), Brilliant Violet 785™ anti-human CD137 (4-1BB), Brilliant Violet 421™ anti-human CD137 (4-1BB), PE/Fire™ 810 anti-human CD137 (4-1BB), APC/Fire™ 810 anti-human CD137 (4-1BB), Spark Blue™ 574 anti-human CD137 (4-1BB) (Flexi-Fluor™), Spark PLUS B550™ anti-human CD137 (4-1BB)

Product Data



PHA-stimulated (3 days) human peripheral blood mononuclear cells were stained with anti-human CD3 (clone UCHT1) PE and anti-human CD137 (4-1BB) (clone S18014C) Brilliant Violet 421™ (left) or mouse IgG1, κ Brilliant Violet 421™ isotype control (right). Data shown were gated on the lymphocyte population.

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