Spark PLUS B550™ anti-human CD137 (4-1BB) Antibody

Catalog# / Size	300825 / 25 tests 300826 / 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 Spark PLUS B550™ 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	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. * Spark PLUS B550™ has a maximum excitation of 516 nm and a maximum emission of 540 nm.
Excitation Laser	Blue Laser (488 nm)
RRID	AB_3683300 (BioLegend Cat. No. 300825) AB_3683300 (BioLegend Cat. No. 300826)

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	1. Gruss HJ & Dower SK. 1995. *Blood*. 85:3378-404. 2. Sica G & Chen L. 2000. *Adv Exp Med Biol*. 465:355-62. 3. Alderson MR, *et al*. 1994. *Eur J Immunol*. 24:2219-27. 4. Schwarz H, *et al.* 1996. *Blood* 87:2839-45.
Gene ID	3604

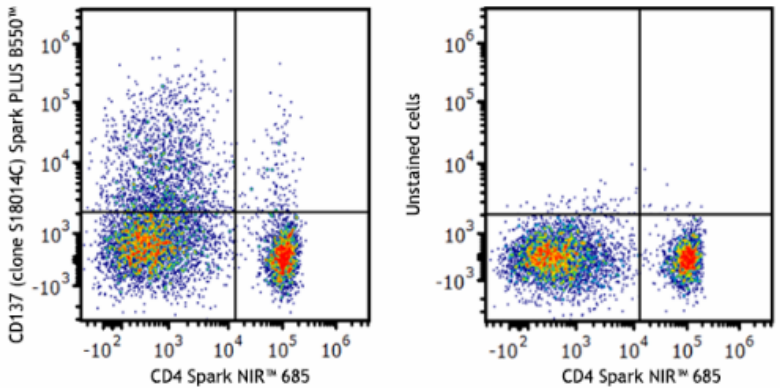
Related Protocols

- 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 CD4 (clone SK3) Spark NIR™ 685 and anti-human CD137 (4-1BB) (clone S18014C) Spark PLUS B550™ (left) or stained with anti-human CD4 (clone SK3) Spark NIR™ 685 only (right). Data shown were gated on the lymphocyte population.

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