

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 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. * 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	<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, <i>et al.</i> 1994. <i>Eur J Immunol</i>. 24:2219-27. 4. Schwarz H, <i>et al.</i> 1996. <i>Blood</i> 87:2839-45.
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Gene ID [3604](#)

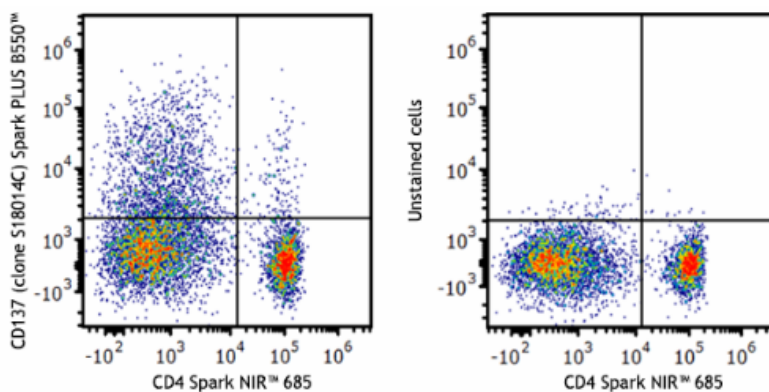
Related Protocols

- [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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