

APC/Fire™ 810 anti-human CD137 (4-1BB) Antibody

Catalog# / Size	300823 / 25 tests 300824 / 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 APC/Fire™ 810 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. * APC/Fire™ 810 has a maximum excitation of 650 nm and a maximum emission of 810 nm. Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect APC/Fire™ 810 fluorescence signal intensity and spread. Please keep conjugates protected from light exposure. For more information and representative data, visit our Fire Dyes page.
Excitation Laser	Red Laser (633 nm)
RRID	AB_3662209 (BioLegend Cat. No. 300823) AB_3662209 (BioLegend Cat. No. 300824)

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](#)

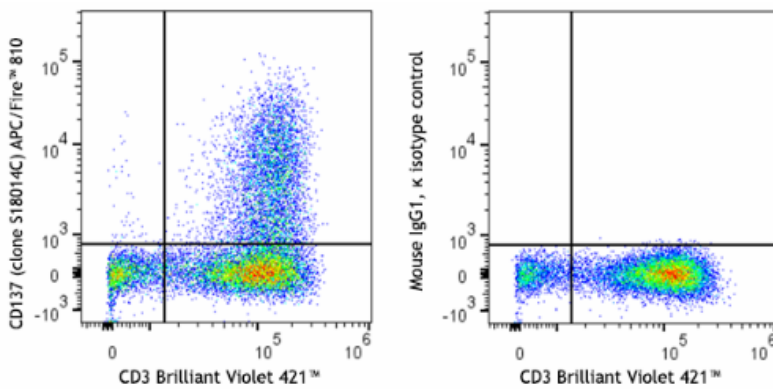
Related Protocols

- [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 CD3 (clone UCHT1) Brilliant Violet 421™ and anti-human CD137 (4-1BB) (clone S18014C) APC/Fire™ 810 (left) or mouse IgG1, κ APC/Fire™ 810 isotype control (right). Data shown were gated on lymphocytes.

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