

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

Catalog# / Size	300821 / 25 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 PE/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	<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>* PE/Fire™ 810 has a maximum excitation of 488/561 nm and a maximum emission of 810 nm.</p> <p>Excessive exposure to light, and commonly used fixation, permeabilization buffers can affect PE/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.</p>
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
RRID	AB_3662403 (BioLegend Cat. No. 300821)

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](#)

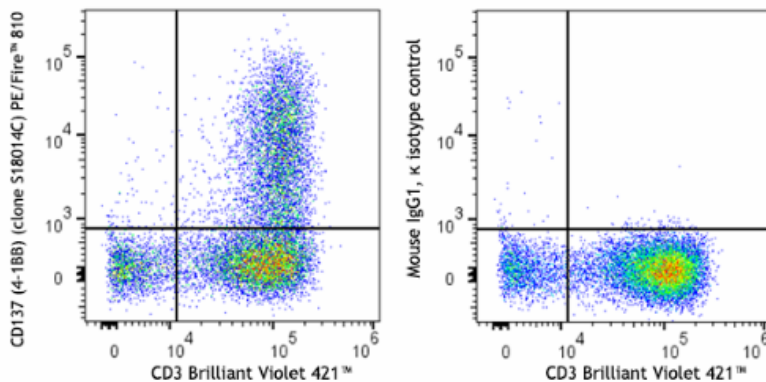
Related Protocols

- [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) PE/Fire™ 810 (left) or mouse IgG1, κ PE/Fire™ 810 isotype control (right). Data shown were gated on the lymphocyte population.

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at www.biolegend.com/terms ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587