

CD137 (4-1BB) Monoclonal Antibody (4B4 (4B4-1)), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	4B4 (4B4-1)
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	5 μL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1272083

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μL (0.5 μg)/test	4 Publications

Product Specific Information

Description: This 4B4 (4B4-1) monoclonal antibody reacts with human CD137 (also known as 4-1BB or TNFRSF9), which is an inducible member of the TNFR family of costimulatory molecules expressed on T cells, natural killer cells, dendritic cells, granulocytes, and mast cells. Involved in recruiting TNFR-associated factors (TRAF) 1 and 2, CD137 signaling plays a role in T cell activation, maintaining the survival of activated and CD8 memory T cells, as well as suppressing myelopoiesis and dendritic cell development. Stimulation of this receptor has also been shown to promote expansion of CD4+CD25+ T regulatory cells i{ex vivoi}. The ligand for CD137, 4-1BBL, is found on activated macrophages, mature B cells, hematopoietic stem cells, and myeloid progenitor cells.

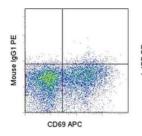
Applications Reported: This 4B4 (4B4-1) antibody has been reported for use in flow cytometric analysis.

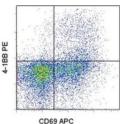
Applications Tested: This 4B4 (4B4-1) antibody has been tested by flow cytometric analysis on two-day Con A-stimulated normal human peripheral blood cells. This can be used at 5 μL (0.5 μg) per test. A test is defined as the amount (μg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD137 (4-1BB) Monoclonal Antibody (4B4 (4B4-1)), PE, eBioscience™





CD137 (4-1BB) Antibody (12-1379-42) in Flow

Staining of 2-day ConA-stimulated normal human peripheral blood cells with Anti-Human CD69 APC (Product # 17-0699-42) and Mouse IgG1 kappa Isotype Control PE (Product # 12-4714-81) (left) or Anti-Human CD137 (4-1BB) PE (right). Total viable cells were used for analysis.

□ 4 References

Flow Cytometry (4)

Oncoimmunology

Neoantigens retention in patient derived xenograft models mediates autologous T cells activation in ovarian cancer.

"Published figure using CD137 (4-1BB) monoclonal antibody (Product # 12-1379-42) in Flow Cytometry"

Authors: Want MY,Konstorum A,Huang RY,Jain V,Matsueda S,Tsuji T,Lugade A,Odunsi K,Koya R,Battaglia S

Year 2022

Cancers

Circulating Exosomes Inhibit B Cell Proliferation and Activity.

"12-1379 was used in Flow cytometry/Cell sorting to isolate and analyse peripheral B cells by flow cytometry to understand the effects of exosomes on B cells."

Authors: Schroeder JC,Puntigam L,Hofmann L,Jeske SS,Beccard IJ,Doescher J,Laban S,Hoffmann TK,Brunner C, Theodoraki MN,Schuler PJ

Year 2020

Species Human

View more Flow references on thermofisher.com

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