

CD137 (4-1BB) Monoclonal Antibody (4B4 (4B4-1)), FITC, 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), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	4B4 (4B4-1)
Conjugate	FITC
Excitation/Emission Max	498/517 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_1272070

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.06 µg)/test	4 Publications
ELISA (ELISA)	-	1 Publication

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 *in vivo*. The ligand for CD137, 4-1BBL, is found on activated macrophages, mature B cells, hematopoietic stem cells, and myeloid progenitor cells.

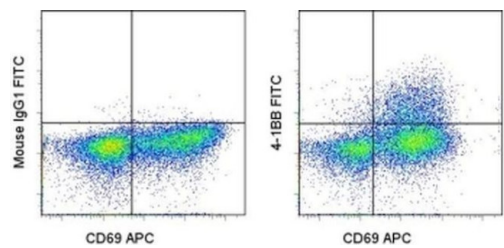
Applications Reported: This 4B4 (4B4-1) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 4B4 (4B4-1) antibody has been pre-titrated and tested by flow cytometric analysis on Con A-stimulated normal human peripheral blood cells. This can be used at 5 µL (0.06 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 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD137 (4-1BB) Antibody (11-1379-42) in Flow
Staining of ConA-stimulated human peripheral blood cells with Anti-Human CD69 APC (Product # 17-0699-42) and Mouse IgG1 kappa Isotype Control FITC (Product # 11-4714-42) (left) or Anti-Human CD137 (4-1BB) FITC (right). Total viable cells were used for analysis.

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5 References

Flow Cytometry (4)

Oncoimmunology	Year 2022
Neoantigens retention in patient derived xenograft models mediates autologous T cells activation in ovarian cancer.	
"Published figure using CD137 (4-1BB) monoclonal antibody (Product # 11-1379-42) in Flow Cytometry"	
Authors: Want MY,Konstorum A,Huang RY,Jain V,Matsueda S,Tsuji T,Lugade A,Odunsi K,Koya R,Battaglia S	
Oxidative medicine and cellular longevity	Year 2018
Antroquinonol Exerts Immunosuppressive Effect on CD8⁺ T Cell Proliferation and Activation to Resist Depigmentation Induced by H₂O₂.	
"Published figure using CD137 (4-1BB) monoclonal antibody (Product # 11-1379-42) in Flow Cytometry"	
Authors: Guan C,Li Q,Song X,Xu W,Li L,Xu A	

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ELISA (1)

Oncotarget	Year 2017
Surrogate in vitro activation of innate immunity synergizes with interleukin-7 to unleash rapid antigen-driven outgrowth of CD4+ and CD8+ human peripheral blood T-cells naturally recognizing MUC1, HER2 /neu and other tumor-associated antigens.	Species Human
"Published figure using CD137 (4-1BB) monoclonal antibody (Product # 11-1379-42) in ELISA"	
Authors: Pathangey LB,McCurry DB,Gendler SJ,Dominguez AL,Gorman JE,Pathangey G,Mihalik LA,Dang Y,Disis ML, Cohen PA	

More applications with references on [thermofisher.com](#)

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