CD137 (4-1BB) Monoclonal Antibody (4B4 (4B4-1)), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	4B4 (4B4-1)
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_2848467

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 μL (0.25 μg)/test	2 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 ex 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.

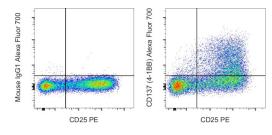
Applications Tested: This 4B4 (4B4-1) antibody has been pre-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 μ L (0.25 μ g) per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser

1

Product Images For CD137 (4-1BB) Monoclonal Antibody (4B4 (4B4-1)), Alexa Fluor™ 700, eBioscience™



CD137 (4-1BB) Antibody (56-1379-42) in Flow

Normal human peripheral blood cells were stimulated for 72 hours with Con A (Product # 00-4978-03) and then stained with CD25 Monoclonal Antibody, PE (Product # 12-0257-42) and Mouse IgG1 kappa Isotype Control, Alexa Fluor 700 (Product # 56-4714-80) (left) or CD137 (4-1BB) Monoclonal Antibody, Alexa Fluor 700 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

3 References

Flow Cytometry (2)

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 # 56-1379-42) 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	
Oxidative medicine and cellular longevity	Year	
Antroquinonol Exerts Immunosuppressive Effect on CD8 ⁺ T Cell Proliferation and Activation to Resist Depigmentation Induced by H ₂ O ₂ .	2018	
"Published figure using CD137 (4-1BB) monoclonal antibody (Product # 56-1379-42) in Flow Cytometry" Authors: Guan C,Li Q,Song X,Xu W,Li L,Xu A		

ELISA (1)

Oncotarget	Year
Surrogate in vitro activation of innate immunity synergizes with	2017
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.	
"Published figure using CD137 (4-1BB) monoclonal antibody (Product # 56-1379-42) in ELISA"	

Authors: Pathangey LB,McCurry DB,Gendler SJ,Dominguez AL,Gorman JE,Pathangey G,Mihalik LA,Dang Y,Disis ML, Cohen PA

For Research Use Only, Not for use in diagnostic procedures. Not for resale without express authorization. Products are varranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation specifications and for accompanying package inserts ("Documentation"). No claim of suitability for use in applications represent that any product specifications in effect at the time of sale, as set of thin the Production documentation on ever from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTES, EXPRESS OR INNELD, XHE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEUP FOR NON-CONFORMING PRODUCTS DURING THE WARRANTE, INCLUSIVE REMEUP FOR NON-CONFORMING PRODUCTS SOLEN OF THE WARRANTE, SUCE POTION CONFORMING PRODUCTS SOLEN OF THE WARRANTE, INCLUSIVE REMEUP FOR NON-CONFORMING PRODUCTS SOLEN OF THE WARRANTE, INCLUSIVE REMEUP FOR NON-CONFORMING PRODUCTS SOLEN OF THE REVISION OF THE WARRANTE INCLUSIVE REMEUP TO A SUBJECT ON CONFORMING PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORGE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for res

2