

T-bet Monoclonal Antibody (eBio4B10 (4B10)),
 PerCP-Cyanine5.5, eBioscience™

Catalog Number 45-5825-80

Product data sheet

Details	
Size	25 µg
Host/Isotope	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	eBio4B10 (4B10)
Conjugate	PerCP-Cyanine5.5
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Species Reactivity	
Species reactivity	Human, Mouse, Rhesus monkey
Published species	Pig, Rat, Mouse, Human, Not Applicable, Rhesus monkey

Tested Applications	Dilution *
Flow Cytometry (Flow)	0.25 µg/test

Published Applications	
Flow Cytometry (Flow)	See 28 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Description: The eBio4B10 monoclonal antibody reacts with mouse and human T-bet. T-bet is a Th1-specific T-box transcription factor critical to the development of the Th1 CD4+ T cell lineage. This is known based on the observations that T-Bet deficient mice have impaired Th1 cell development, and that ectopic expression of T-Bet results in development skewed to the Th1 lineage. T-Bet expression is induced by the Th1 cytokine IFN gamma, and T-Bet also regulates the expression of IFN gamma, likely, at least in part, through the modification of DNA accessibility and histone remodeling. In addition to IFN gamma, T-Bet is also known to regulate the expression of IL-12R beta and IL-2. Moreover, T-Bet plays a role in class-switch recombination in B-cells. Applications Reported: This eBio4B10 antibody has been reported for use in intracellular staining followed by flow cytometric analysis. Applications Tested: This eBio4B10 antibody has been tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells. This antibody can be used at less than or equal to 0.25 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. For intracellular staining with the eBio4B10 monoclonal antibody, it is recommended to use the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols; Protocol B: One step protocol for intracellular (nuclear) proteins). Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

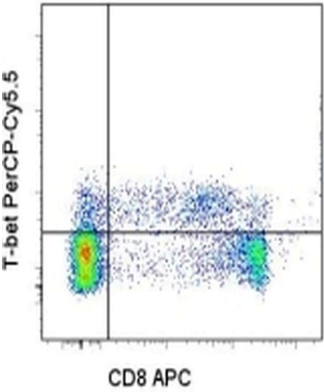
T-bet, also known as TBX21, is a T-cell specific transcription factor containing a single T-box DNA-binding domain. It controls the expression of the TH1 cytokine, interferon-gamma. Both Th1 and Th17 cells are crucial in immune regulation and autoimmune disease development. T-bet initiates Th1 lineage development from naive Th precursor cells and directs T cell differentiation to Th1 versus Th17. T-bet is cooperating with Stat4 (signal transducer and activator of transcription 4) in programming chromatin architecture for Th1 gene expression. Genetic variations in T-bet are associated with susceptibility to aspirin-induced asthma and nasal polyps.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted 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/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year 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 WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE 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 research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.



T-bet Antibody (45-5825-80) in Flow

Intracellular staining of normal human peripheral blood cells with Anti-Human CD8a APC (Product # 17-0086-42) and 0.125 µg of Anti-Human/Mouse T-bet PerCP-Cyanine5-5 using the Foxp3 Fixation/Permeabilization Buffers (Product # 00-5523-00). Cells in the lymphocyte gate were used for analysis.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted 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/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year 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 WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE 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 research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

28 Flow Cytometry References

Species / Dilution	Summary
	<p>45-5825-82 was used in Flow cytometry/Cell sorting to show that genetic ablation or pharmacologic inhibition of the PPP enzyme 6-phosphogluconate dehydrogenase (6PGD) in the oxidative PPP results in the generation of superior CD8+ T effector cells.</p>
Mouse / Not Cited	<p>Cell reports (2021; 34:) "Blockade of 6-phosphogluconate dehydrogenase generates CD8<sup>+</sup> effector T cells with enhanced anti-tumor function." Author(s):Daneshmandi S,Cassel T,Lin P,Higashi RM,Wulf GM,Boussiotis VA,Fan TW,Seth P PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2021.108831</p>
	<p>45-5825 was used in Flow cytometry/Cell sorting to investigate how IL12, and other inflammatory cytokines, shape effector functions of human T-cells.</p>
Human / Not Cited	<p>Oncoimmunology (2016; 5:) "IL12-mediated sensitizing of T-cell receptor-dependent and -independent tumor cell killing." Author(s):Braun M,Ress ML,Yoo YE,Scholz CJ,Eyrich M,Schlegel PG,Wölfl M PubMed Article URL:http://dx.doi.org/10.1080/2162402X.2016.1188245</p>
	<p>45-5825 was used in Flow cytometry/Cell sorting to investigate the role of MK2 in dendritic cells, showing that it attenuates dendritic cell-mediated Th1 differentiation and autoimmune encephalomyelitis.</p>
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2015; 195: 541) "The MAPK-Activated Kinase MK2 Attenuates Dendritic Cell-Mediated Th1 Differentiation and Autoimmune Encephalomyelitis." Author(s):Soukup K,Halfmann A,Le Bras M,Sahin E,Vittori S,Poyer F,Schuh C,Luger R,Niederreiter B,Haider T,Stoiber D, Blüml S,Schabbauer G,Kotlyarov A,Gaestel M,Felzmann T,Dohnal AM PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1401663</p>
	<p>45-5825-82 was used in Flow cytometry/Cell sorting to delineate the metabolic configuration of CD8+ T cells required for stable effector function in tumors and present an affordable approach to promote the efficacy of CD8+ T cells for adoptive T-cell therapy.</p>
Mouse / 1:200	<p>Cancer research (2022; 82: 2640) "Intracellular Acetyl CoA Potentiates the Therapeutic Efficacy of Antitumor CD8+ T Cells." Author(s):Chowdhury S,Kar A,Bhowmik D,Gautam A,Basak D,Sarkar I,Ghosh P,Sarkar D,Deka A,Chakraborty P, Mukhopadhyay A,Mehrotra S,Basak S,Paul S,Chatterjee S PubMed Article URL:http://dx.doi.org/10.1158/0008-5472.CAN-21-4052</p>
	<p>45-5825 was used in Flow cytometry/Cell sorting to characterise a novel subset of human V2T cells that populate the human intestinal mucosa and contribute to mucosal inflammation.</p>
Human / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2013; 191: 2752) "Proinflammatory V2+ T cells populate the human intestinal mucosa and enhance IFN- production by colonic T cells." Author(s):McCarthy NE,Bashir Z,Vossenkämper A,Hedin CR,Giles EM,Bhattacharjee S,Brown SG,Sanders TJ,Whelan K, MacDonald TT,Lindsay JO,Stagg AJ PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1202959</p>
	<p>45-5825 was used in Flow cytometry/Cell sorting to identify a novel mechanism that affects the distribution of self-reactive cytotoxic effector cells.</p>
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2012; 189: 701) "Breakdown in repression of IFN- mRNA leads to accumulation of self-reactive effector CD8+ T cells." Author(s):Chang PP,Lee SK,Hu X,Davey G,Duan G,Cho JH,Karupiah G,Sprent J,Heath WR,Bertram EM,Vinuesa CG PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1102432</p>
	<p>45-5825 was used in Flow cytometry/Cell sorting to suggest that the RSV G protein not only contributes to disease, but also dampens the host immune response to infection.</p>
Mouse / Not Cited	<p>Journal of virology (2014; 88: 10569) "Prophylaxis with a respiratory syncytial virus (RSV) anti-G protein monoclonal antibody shifts the adaptive immune response to RSV rA2-line19F infection from Th2 to Th1 in BALB/c mice." Author(s):Boyoglu-Barnum S,Chirkova T,Todd SO,Barnum TR,Gaston KA,Jorquera P,Haynes LM,Tripp RA,Moore ML, Anderson LJ PubMed Article URL:http://dx.doi.org/10.1128/JVI.01503-14</p>

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted 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/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year 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 WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE 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 research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

	45-5825 was used in Flow cytometry/Cell sorting to study the enrichment of tumor-infiltrating Treg populations and assess the role of IL-2 in perturbation of Treg frequencies in tumors.
Mouse / Not Cited	Oncotarget (2015; 6: 24649) "Eliminating roles for T-bet and IL-2 but revealing superior activation and proliferation as mechanisms underpinning dominance of regulatory T cells in tumors." Author(s):Colbeck EJ,Hindley JP,Smart K,Jones E,Bloom A,Bridgeman H,McPherson RC,Turner DG,Ladell K,Price DA,O'Connor RA,Anderton SM,Godkin AJ,Gallimore AM PubMed Article URL: http://dx.doi.org/10.18632/oncotarget.5584
Mouse / Not Cited	45-5825 was used in Flow cytometry/Cell sorting to investigate the contribution of microRNA-155 to TH2-mediated allergen-induced airway inflammation in a mouse model. The Journal of allergy and clinical immunology (2014; 133: 1429) "MicroRNA-155 is essential for T(H)2-mediated allergen-induced eosinophilic inflammation in the lung." Author(s):Malmhäll C,Alawieh S,Lu Y,Sjöstrand M,Bossios A,Eldh M,Rådinger M PubMed Article URL: http://dx.doi.org/10.1016/j.jaci.2013.11.008
Mouse / Not Cited	45-5825 was used in Flow cytometry/Cell sorting to study the function of CD36 in malaria immunity. The Journal of biological chemistry (2017; 292: 9394) "CD36 receptor regulates malaria-induced immune responses primarily at early blood stage infection contributing to parasitemia control and resistance to mortality." Author(s):Thylur RP,Wu X,Gowda NM,Punnath K,Neelgund SE,Febbraio M,Gowda DC PubMed Article URL: http://dx.doi.org/10.1074/jbc.M117.781294
Human / Not Cited	45-5825 was used in Flow cytometry/Cell sorting to characterise GM-CSF production by T cells of MS patients and to determine the effect of IFN- therapy on its production. Journal of immunology (Baltimore, Md. : 1950) (2015; 194: 5085) "Expression of GM-CSF in T Cells Is Increased in Multiple Sclerosis and Suppressed by IFN- Therapy." Author(s):Rasouli J,Ciric B,Imitola J,Gonnella P,Hwang D,Mahajan K,Mari ER,Safavi F,Leist TP,Zhang GX,Rostami A PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1403243
Mouse / Not Cited	45-5825 was used in Flow cytometry/Cell sorting to demonstrate that T cell factor-1, encoded by the Tcf7 gene, is critical for the extended lifetime of double positive thymocytes. PloS one (2016; 9:) "T cell factor-1 controls the lifetime of CD4+ CD8+ thymocytes in vivo and distal T cell receptor -chain rearrangement required for NKT cell development." Author(s):Sharma A,Berga-Bolaños R,Sen JM PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0115803
Mouse / Not Cited	45-5825 was used in Flow cytometry/Cell sorting to identify factors affecting the quality of the immune response to vaccination. PloS one (2014; 8:) "Alterations in regulatory T cells induced by specific oligosaccharides improve vaccine responsiveness in mice." Author(s):Schijf MA,Kerperien J,Bastiaans J,Szklany K,Meerding J,Hofman G,Boon L,van Wijk F,Garssen J,Van't Land B PubMed Article URL: http://dx.doi.org/10.1371/journal.pone.0075148
Mouse / Not Cited	45-5825 was used in Flow cytometry/Cell sorting to study the role of DOCK8 in the survival and function of human and mouse CD8 T cells. The Journal of experimental medicine (2011; 208: 2305) "DOCK8 deficiency impairs CD8 T cell survival and function in humans and mice." Author(s):Randall KL,Chan SS,Ma CS,Fung I,Mei Y,Yabas M,Tan A,Arkwright PD,Al Suwairi W,Lugo Reyes SO,Yamazaki-Nakashimada MA,Garcia-Cruz Mde L,Smart JM,Picard C,Okada S,Jouanguy E,Casanova JL,Lambe T,Cornall RJ,Russell S,Oliaro J,Tangye SG,Bertram EM,Goodnow CC PubMed Article URL: http://dx.doi.org/10.1084/jem.20110345
Human / Not Cited	45-5825-82 was used in Flow Cytometry to show that this methodology holds as a very promising single dose, thermostable vaccine platform well-suited to address emerging pathogens on a global scale. bioRxiv : the preprint server for biology (2021; :) "Immunogenicity of an AAV-based, room-temperature stable, single dose COVID-19 vaccine in mice and non-human primates." Author(s):Zabaleta N,Dai W,Bhatt U,Chichester JA,Sanmiguel J,Estelien R,Michalson KT,Diop C,Maciorowski D,Qi W,Hudspeth E,Cucalon A,Dyer CD,Pampena MB,Knox JJ,LaRocque RC,Charles RC,Li D,Kim M,Sheridan A,Storm N,Johnson RI,Feldman J,Hauser BM,Zinn E,Ryan A,Kobayashi DT,Chauhan R,McGlynn M,Ryan ET,Schmidt AG,Price B,Honko A,Griffiths A,Yaghmour S,Hodge R,Betts MR,Freeman MW,Wilson JM,Vandenbergh LH PubMed Article URL: http://dx.doi.org/10.1101/2021.01.05.422952

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted 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/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year 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 WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE 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 research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

Pig / Not Cited	<p>45-5825 was used in Flow cytometry/Cell sorting to investigate the phenotypic and functional changes in PMBC populations during Helicobacter pylori infection, showing that infection is dominated by Th1 and cytotoxic CD8+ T cell responses.</p> <p>Infection and immunity (2013; 81: 3803) "Helicobacter pylori infection in a pig model is dominated by Th1 and cytotoxic CD8+ T cell responses." Author(s):Kronsteiner B,Bassaganya-Riera J,Philipson C,Viladomiu M,Carbo A,Pedragosa M,Vento S,Hontecillas R PubMed Article URL:http://dx.doi.org/10.1128/IAI.00660-13</p>
Mouse / Not Cited	<p>45-5825 was used in Flow cytometry/Cell sorting to reveal a previously unrecognized function of Th1 cell-derived IL-10 in vivo.</p> <p>Nature communications (2015; 6:) "IL-10 inhibits neuraminidase-activated TGF- and facilitates Th1 phenotype during early phase of infection." Author(s):Dutta A,Huang CT,Chen TC,Lin CY,Chiu CH,Lin YC,Chang CS,He YC PubMed Article URL:http://dx.doi.org/10.1038/ncomms7374</p>
Mouse / Not Cited	<p>45-5825 was used in Flow cytometry/Cell sorting to study regulatory interactions between transcription factors and genes within intestinal type 1, 2, and 3 innate lymphoid cells subsets.</p> <p>Immunity (2019; 51: 185) "Characterization of Transcriptional Regulatory Networks that Promote and Restrict Identities and Functions of Intestinal Innate Lymphoid Cells." Author(s):Pokrovskii M,Hall JA,Ochayon DE,Yi R,Chaimowitz NS,Seelamneni H,Carriero N,Watters A,Waggoner SN,Littman DR,Bonneau R,Miraldi ER PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2019.06.001</p>
Mouse / Not Cited	<p>45-5825 was used in Flow cytometry/Cell sorting to investigate the effect of mutations in heterogeneous ribonucleoprotein L-like protein on NKT and T cells.</p> <p>PLoS one (2012; 6:) "Differential requirement for the CD45 splicing regulator hnRNPLL for accumulation of NKT and conventional T cells." Author(s):Yabas M,Godfrey DI,Goodnow CC,Hoyne GF PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0026440</p>
Rhesus monkey / Not Cited	<p>45-5825-82 was used in Flow Cytometry to show that AAVCOVID-1, an adeno-associated viral (AAV), spike-gene-based vaccine candidate demonstrates potent immunogenicity in mouse and non-human primates following a single injection and confers complete protection from SARS-CoV-2 challenge in macaques.</p> <p>Cell host & microbe (2021; 29: 1437) "An AAV-based, room-temperature-stable, single-dose COVID-19 vaccine provides durable immunogenicity and protection in non-human primates." Author(s):Zabaleta N,Dai W,Bhatt U,Hérate C,Maisonnette P,Chichester JA,Sanmiguel J,Estelien R,Michalson KT,Diop C,Maciorowski D,Dereuddre-Bosquet N,Cavarelli M,Gallouët AS,Naninck T,Kahlaoui N,Lemaitre J,Qi W,Hudspeth E,Cucalon A,Dyer CD,Pampena MB,Knox JJ,LaRocque RC,Charles RC,Li D,Kim M,Sheridan A,Storm N,Johnson RI,Feldman J,Hauser BM,Contreras V,Marlin R,Tsong Fang RH,Chapon C,van der Werf S,Zinn E,Ryan A,Kobayashi DT,Chauhan R,McGlynn M,Ryan ET,Schmidt AG,Price B,Honko A,Griffiths A,Yagmour S,Hodge R,Betts MR,Freeman MW,Wilson JM,Le Grand R,Vandenbergh LH PubMed Article URL:http://dx.doi.org/10.1016/j.chom.2021.08.002</p>
Human / Not Cited	<p>45-5825 was used in Flow cytometry/Cell sorting to investigate the phenotype of CD57-expressing CD8(+) T cells in healthy donors and during HIV infection combining CD57 expression to Eomesodermin.</p> <p>Journal of virology (2014; 88: 11861) "High eomesodermin expression among CD57+ CD8+ T cells identifies a CD8+ T cell subset associated with viral control during chronic human immunodeficiency virus infection." Author(s):Simonetta F,Hua S,Lécureux C,Gérard S,Boufassa F,Sáez-Cirión A,Pancino G,Goujard C,Lambotte O,Venet A,Bourgeois C PubMed Article URL:http://dx.doi.org/10.1128/JVI.02013-14</p>
Mouse / Not Cited	<p>45-5825 was used in Flow cytometry/Cell sorting to study the role of regulatory T cells during Trypanosoma cruzi infection.</p> <p>Frontiers in immunology (2019; 9:) "Limited Foxp3⁺ Regulatory T Cells Response During Acute Trypanosoma cruzi Infection Is Required to Allow the Emergence of Robust Parasite-Specific CD8⁺ T Cell Immunity." Author(s):Araujo Furlan CL,Tosello Boari J,Rodriguez C,Canale FP,Fiocca Vernengo F,Boccardo S,Beccaria CG,Adoue V,Joffre O,Gruppi A,Montes CL,Acosta Rodriguez EV PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2018.02555</p>

45-5825 was used in Flow cytometry/Cell sorting to study the co-stimulatory role of CXCR6/CXCL16 interactions in glycolipid-dependent invariant natural killer T (iNKT) cell activation and tumour control, showing that CXCL16-positive dendritic cells enhance iNKT cell-dependent IFN production and tumor control.

Mouse / Not Cited

Oncoimmunology (2016; 5:)
"CXCL16-positive dendritic cells enhance invariant natural killer T cell-dependent IFN production and tumor control."
Author(s):Veinotte L,Gebremeskel S,Johnston B
PubMed Article URL:<http://dx.doi.org/10.1080/2162402X.2016.1160979>

Mouse / Not Cited

Immunology (2017; 151: 154)
"The NLRP3 inflammasome contributes to host protection during *Sporothrix schenckii* infection."
Author(s):Gonçalves AC,Ferreira LS,Manente FA,de Faria CMQG,Polesi MC,de Andrade CR,Zamboni DS,Carlos IZ
PubMed Article URL:<http://dx.doi.org/10.1111/imm.12719>

Mouse / Not Cited

PloS one (2016; 10:)
"Chronic *Trichuris muris* Infection Decreases Diversity of the Intestinal Microbiota and Concomitantly Increases the Abundance of Lactobacilli."
Author(s):Holm JB,Sorobetea D,Kiilerich P,Ramayo-Caldas Y,Estellé J,Ma T,Madsen L,Kristiansen K,Svensson-Frej M
PubMed Article URL:<http://dx.doi.org/10.1371/journal.pone.0125495>

Mouse / 1:100

Nature communications (2020; 11:)
"Osteoprotegerin-dependent M cell self-regulation balances gut infection and immunity."
Author(s):Kimura S,Nakamura Y,Kobayashi N,Shiroguchi K,Kawakami E,Mutoh M,Takahashi-Iwanaga H,Yamada T, Hisamoto M,Nakamura M,Udagawa N,Sato S,Kaisho T,Iwanaga T,Hase K
PubMed Article URL:<http://dx.doi.org/10.1038/s41467-019-13883-y>

Human / Not Cited

Frontiers in immunology (2019; 9:)
"Effects of Anti-Integrin Treatment With Vedolizumab on Immune Pathways and Cytokines in Inflammatory Bowel Diseases."
Author(s):Rath T,Billmeier U,Ferrazzi F,Vieth M,Ekici A,Neurath MF,Atreya R
PubMed Article URL:<http://dx.doi.org/10.3389/fimmu.2018.01700>

Mouse / Not Cited

45-5825 was used in Flow cytometry/Cell sorting to establish ex vivo culture conditions to generate hybrid Th1/17 cells, which persist long-term in vivo while maintaining effector function.

Cell metabolism (2018; 27: 85)
"CD38-NAD⁺ Axis Regulates Immunotherapeutic Anti-Tumor T Cell Response."
Author(s):Chatterjee S,Daenthanasanmak A,Chakraborty P,Wyatt MW,Dhar P,Selvam SP,Fu J,Zhang J,Nguyen H,Kang I, Toth K,Al-Homrani M,Husain M,Beeson G,Ball L,Helke K,Husain S,Garrett-Mayer E,Hardiman G,Mehrotra M,Nishimura MI,Beeson CC,Bupp MG,Wu J,Ogretmen B,Paulos CM,Rathmell J,Yu XZ,Mehrotra S
PubMed Article URL:<http://dx.doi.org/10.1016/j.cmet.2017.10.006>

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted 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/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year 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 WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE 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 research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.