

CD3e Monoclonal Antibody (145-2C11), PE-Cyanine5, eBioscience™

Catalog Number 15-0031-81

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Mouse
Host/Isotope	Armenian hamster / IgG	Published species	Mouse, Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Flow Cytometry (Flow)	Dilution * 0.25 µg/test
Clone	145-2C11	Published Applications	
Conjugate	PE-Cyanine5	Flow Cytometry (Flow)	See 49 publications below
Form	Liquid	Immunohistochemistry (Frozen) (IHC (F))	See 2 publications below
Concentration	0.2 mg/mL	Functional Assay (FN)	See 1 publications below
Purification	Affinity chromatography	* 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.	
Storage buffer	PBS, pH 7.2		
Contains	0.09% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

Description: The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells. **Applications Reported:** The 145-2C11 antibody has been reported for use in flow cytometric analysis. **Applications Tested:** The 145-2C11 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This 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 10⁴ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. **Light sensitivity:** This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light. **Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically. **Excitation:** 488-561 nm; **Emission:** 667 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser. **Filtration:** 0.2 µm post-manufacturing filtered.

Background/Target Information

The CD3 subunit complex which is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules and this association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82% of normal peripheral blood lymphocytes, 65-85% of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases. The genes encoding the CD3 epsilon, gamma and delta polypeptides are located on chromosome 11. Defects in the CD3 gene are associated with CD3 immunodeficiency.

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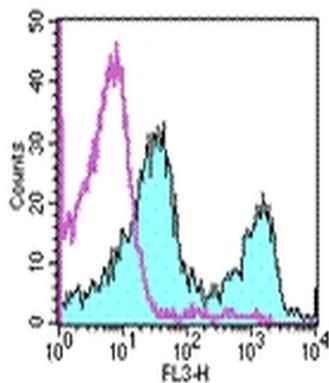
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CD3e Antibody (15-0031-81) in Flow

Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.125 µg of Anti-Mouse CD3e PE-Cyanine5 (filled histogram). Total cells were used for analysis.



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49 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	15-0031 was used in Flow cytometry/Cell sorting to investigate whether T cells and/or NK cells contribute to circulatory control during pregnancy. Biology of reproduction (2011; 85: 605) "Cardiovascular adaptations of pregnancy in T and B cell-deficient mice." Author(s):Burke SD,Barrette VF,Carter AL,Gravel J,Adams MA,Croy BA PubMed Article URL: http://dx.doi.org/10.1095/biolreprod.111.092668
Mouse / Not Cited	15-0031 was used in Flow cytometry/Cell sorting to study the use of a combined immunogene therapy and regulatory T-cell inactivation against weakly immunogenic solid tumours. Cancer gene therapy (2010; 17: 501) "Effective immunotherapy of weakly immunogenic solid tumours using a combined immunogene therapy and regulatory T-cell inactivation." Author(s):Whelan MC,Casey G,MacConmara M,Lederer JA,Soden D,Collins JK,Tangney M,O'Sullivan GC PubMed Article URL: http://dx.doi.org/10.1038/cgt.2010.8
Mouse / Not Cited	15-0031 was used in Flow cytometry/Cell sorting to generate vaccine platforms targeting a malarial parasite protein and assess them for protective efficacy. Clinical and vaccine immunology : CVI (2017; 24:) "Evaluation of Plasmodium vivax Cell-Traversal Protein for Ookinetes and Sporozoites as a Preerythrocytic P. vivax Vaccine." Author(s):Alves E,Salman AM,Leoratti F,Lopez-Camacho C,Viveros-Sandoval ME,Lall A,EI-Turabi A,Bachmann MF,Hill AV,Janse CJ,Khan SM,Reyes-Sandoval A PubMed Article URL: http://dx.doi.org/10.1128/CVI.00501-16
Mouse / Not Cited	15-0031 was used in Flow cytometry/Cell sorting to suggest differential roles of DC-NK cell cross talk at different stages of Leishmania infection. Infection and immunity (2008; 76: 5100) "Role of natural killer cells in modulating dendritic cell responses to Leishmania amazonensis infection." Author(s):Sanabria MX,Vargas-Inchaustegui DA,Xin L,Soong L PubMed Article URL: http://dx.doi.org/10.1128/IAI.00438-08
Mouse / Not Cited	15-0031 was used in Flow cytometry/Cell sorting to examine the effects of lactosucrose (4(G)--D-galactosylsucrose) on influenza A virus infections in mice. Bioscience of microbiota, food and health (2015; 34: 67) "Dietary lactosucrose suppresses influenza A (H1N1) virus infection in mice." Author(s):Kishino E,Takemura N,Masaki H,Ito T,Nakazawa M PubMed Article URL: http://dx.doi.org/10.12938/bmfh.2015-005
Mouse / Not Cited	15-0031 was used in Flow cytometry/Cell sorting to show that monocyte-derived inflammatory DCs" are a mixture of monocyte-derived MCs that have little migratory and APC potential and bona fide pre-cDCderived, CD26-expressing inf-cDC2s that depend on Flt3L but not on GM-CSF. Immunity (2020; 52: 1039) "Inflammatory Type 2 cDCs Acquire Features of cDC1s and Macrophages to Orchestrate Immunity to Respiratory Virus Infection." Author(s):Bosteels C,Neyt K,Vanheerswynghels M,van Helden MJ,Sichien D,Debeuf N,De Prijck S,Bosteels V,Vandamme N,Martens L,Saeyns Y,Louagie E,Lesage M,Williams DL,Tang SC,Mayer JU,Ronchese F,Scott CL,Hammad H,Guilliams M,Lambrecht BN PubMed Article URL: http://dx.doi.org/10.1016/j.immuni.2020.04.005
Mouse / Not Cited	15-0031 was used in Flow cytometry/Cell sorting to demonstrate roles for retinoid signaling and the DERARE in maintaining HSCs and preventing leukemogenesis by coordinate regulation of Hoxb genes. Cell stem cell (2018; 22: 740) "Retinoid-Sensitive Epigenetic Regulation of the Hoxb Cluster Maintains Normal Hematopoiesis and Inhibits Leukemogenesis." Author(s):Qian P,De Kumar B,He XC,Nolte C,Gogol M,Ahn Y,Chen S,Li Z,Xu H,Perry JM,Hu D,Tao F,Zhao M,Han Y,Hall K,Peak A,Paulson A,Zhao C,Venkatraman A,Box A,Perera A,Haug JS,Parmely T,Li H,Krumlauf R,Li L PubMed Article URL: http://dx.doi.org/10.1016/j.stem.2018.04.012

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15-0031 was used in Flow cytometry/Cell sorting to demonstrate a role for USP16 in antagonising the self-renewal and senescence pathways in Down's syndrome.

Nature (2013; 501: 380)

"Usp16 contributes to somatic stem-cell defects in Down's syndrome."

Author(s):Adorno M,Sikandar S,Mitra SS,Kuo A,Nicolis Di Robilant B,Haro-Acosta V,Ouadah Y,Quarta M,Rodriguez J, Qian D,Reddy VM,Cheshier S,Garner CC,Clarke MF
PubMed Article URL:<http://dx.doi.org/10.1038/nature12530>

15-0031 was used in Flow cytometry/Cell sorting to demonstrate how foetal haematopoietic stem cells may acquire adult characteristics between 1 and 2 weeks after birth in mouse bone marrow.

Proceedings of the National Academy of Sciences of the United States of America (2006; 103: 17852)

"Developmental switch of mouse hematopoietic stem cells from fetal to adult type occurs in bone marrow after birth."

Author(s):Kikuchi K,Kondo M
PubMed Article URL:<http://dx.doi.org/10.1073/pnas.0603368103>

15-0031 was used in Flow cytometry/Cell sorting to point strongly towards the cell-specific and contextual function of Nlr1 during invasive pulmonary aspergillosis and may lead to novel therapeutics to reduce Th2 responses by CD103+ DCs or heightened recruitment of neutrophils.

PLoS pathogens (2020; 16:)

"NLRX1 is a key regulator of immune signaling during invasive pulmonary aspergillosis."

Author(s):Kastelberg B,Tubau-Juni N,Ayubi T,Leung A,Leber A,Hontecillas R,Bassaganya-Riera J,Kale SD
PubMed Article URL:<http://dx.doi.org/10.1371/journal.ppat.1008854>

15-0031 was used in Flow cytometry/Cell sorting to evaluate whether the biological activity of G-CSF can be improved by pre-association with anti-G-CSF monoclonal antibodies prior to injection.

Journal of hematology & oncology (2013; 6:)

"G-CSF/anti-G-CSF antibody complexes drive the potent recovery and expansion of CD11b+Gr-1+ myeloid cells without compromising CD8+ T cell immune responses."

Author(s):Rubinstein MP,Salem ML,Doedens AL,Moore CJ,Chiuzan C,Rivell GL,Cole DJ,Goldrath AW
PubMed Article URL:<http://dx.doi.org/10.1186/1756-8722-6-75>

15-0031 was used in Flow cytometry/Cell sorting to explore TIM-3-Gal-9 function in a clinically relevant murine model of hepatic cold storage and orthotopic liver transplantation.

American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons (2015; 15: 954)

"Negative CD4+TIM-3 signaling confers resistance against cold preservation damage in mouse liver transplantation."

Author(s):Liu Y, Ji H,Zhang Y,Shen XD,Gao F,Nguyen TT,Shang X, Lee N, Busuttil RW, Kupiec-Weglinski JW
PubMed Article URL:<http://dx.doi.org/10.1111/ajt.13067>

15-0031 was used in Flow cytometry/Cell sorting to report several new t-AML/MDS mouse models that could potentially be used to further define disease pathogenesis and test novel therapeutics.

PLoS one (2017; 11:)

"Alkylator-Induced and Patient-Derived Xenograft Mouse Models of Therapy-Related Myeloid Neoplasms Model Clinical Disease and Suggest the Presence of Multiple Cell Subpopulations with Leukemia Stem Cell Activity."

Author(s):Jonas BA,Johnson C,Gratzinger D,Majeti R
PubMed Article URL:<http://dx.doi.org/10.1371/journal.pone.0159189>

15-0031-82 was used in Flow Cytometry to reveal mechanistic differences between ATR inhibition and ATR loss.

Nature communications (2018; 9:)

"Kinase-dead ATR differs from ATR loss by limiting the dynamic exchange of ATR and RPA."

Author(s):Menolfi D,Jiang W, Lee BJ,Moiseeva T,Shao Z,Estes V,Frattini MG,Bakkenist CJ,Zha S
PubMed Article URL:<http://dx.doi.org/10.1038/s41467-018-07798-3>

15-0031 was used in Flow cytometry/Cell sorting to identify polymorphisms near C1galt1 and its molecular chaperone, Cosmc, were associated with altered composition of the colonic mucosal microbiota.

Gut microbes (2017; 8: 1)

"Microbial, metabolic, and immunologic dynamics in a relapsing genetic mouse model of colitis induced by T-synthase deficiency."

Author(s):Jacobs JP,Lin L,Goudarzi M,Ruegger P,McGovern DP,Fornace AJ,Borneman J,Xia L,Braun J
PubMed Article URL:<http://dx.doi.org/10.1080/19490976.2016.1257469>

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15-0031 was used in Flow cytometry/Cell sorting to assess the potential of antisense splice-correcting oligonucleotides targeting mutated Bruton's tyrosine kinase transcripts for treating X-linked agammaglobulinemia.

The Journal of clinical investigation (2014; 124: 4067)

"Splice-correcting oligonucleotides restore BTK function in X-linked agammaglobulinemia model."

Author(s):Bestas B,Moreno PM,Blomberg KE,Mohammad DK,Saleh AF,Sutlu T,Nordin JZ,Guterstam P,Gustafsson MO,Kharazi S,Pitosa B,Roberts TC,Behlke MA,Wood MJ,Gait MJ,Lundin KE,El Andaloussi S,Månsson R,Berglöf A,Wengel J,Smith CI

PubMed Article URL:<http://dx.doi.org/10.1172/JCI76175>

15-0031 was used in Flow cytometry/Cell sorting to indicate that combined blockade of T cell immunoglobulin and mucin domain 3 and carcinoembryonic antigen-related cell adhesion molecule 1 generates robust therapeutic efficacy in mice with intracranial tumours.

Medical science monitor : international medical journal of experimental and clinical research (2017; 23: 3593)

"Combined Blockade of T Cell Immunoglobulin and Mucin Domain 3 and Carcinoembryonic Antigen-Related Cell Adhesion Molecule 1 Results in Durable Therapeutic Efficacy in Mice with Intracranial Gliomas."

Author(s):Li J,Liu X,Duan Y,Liu Y,Wang H,Lian S,Zhuang G,Fan Y

PubMed Article URL:<http://dx.doi.org/10.12659/msm.903098>

15-0031 was used in Flow cytometry/Cell sorting to study how the interplay between M. tuberculosis and NK cells/APC triggering IFN-gamma may play a beneficial role in tuberculous pleurisy by helping to maintain a type 1 profile.

Infection and immunity (2007; 75: 5325)

"Mycobacterium tuberculosis-induced gamma interferon production by natural killer cells requires cross talk with antigen-presenting cells involving Toll-like receptors 2 and 4 and the mannose receptor in tuberculous pleurisy."

Author(s):Schierloh P,Yokobori N,Alemán M,Landoni V,Geffner L,Musella RM,Castagnino J,Baldini M,Abbate E,de la Barrera SS,Sasiain MC

PubMed Article URL:<http://dx.doi.org/10.1128/IAI.00381-07>

15-0031 was used in Flow cytometry/Cell sorting to investigate the immunomodulatory effects of polysaccharide from a marine fungus Phoma herbarum on T cells and dendritic cells.

Mediators of inflammation (2015; 2014:)

"Immunomodulatory effects of polysaccharide from marine fungus Phoma herbarum YS4108 on T cells and dendritic cells."

Author(s):Chen S,Ding R,Zhou Y,Zhang X,Zhu R,Gao XD

PubMed Article URL:<http://dx.doi.org/10.1155/2014/738631>

15-0031 was used in Flow cytometry/Cell sorting to demonstrate an effect of the NK1R in T cells that is relevant for immunotherapies based on pro-inflammatory neuropeptides and its receptors.

Cell reports (2020; 30: 3448)

"Neurokinin-1 Receptor Signaling Is Required for Efficient Ca²⁺ Flux in T-Cell-Receptor-Activated T Cells."

Author(s):Morelli AE,Sumpter TL,Rojas-Canales DM,Bandyopadhyay M,Chen Z,Tkacheva O,Shufesky WJ,Wallace CT,Watkins SC,Berger A,Paige CJ,Falo LD,Larregina AT

PubMed Article URL:<http://dx.doi.org/10.1016/j.celrep.2020.02.054>

15-0031 was used in Flow cytometry/Cell sorting to show how FOXO3A directs a protective autophagy program in haematopoietic stem cells.

Nature (2013; 494: 323)

"FOXO3A directs a protective autophagy program in haematopoietic stem cells."

Author(s):Warr MR,Binnewies M,Flach J,Reynaud D,Garg T,Malhotra R,Debnath J,Passegué E

PubMed Article URL:<http://dx.doi.org/10.1038/nature11895>

International journal of oncology (2018; 53: 1580)

"Intraperitoneal neutrophils activated by KRAS-induced ovarian cancer exert antitumor effects by modulating adaptive immunity."

Author(s):Yoshida M,Taguchi A,Kawana K,Ogishima J,Adachi K,Kawata A,Nakamura H,Sato M,Fujimoto A,Inoue T,Tomio K,Mori M,Nagamatsu T,Arimoto T,Koga K,Hiraie OW,Oda K,Kiyono T,Osuga Y,Fujii T

PubMed Article URL:<http://dx.doi.org/10.3892/ijo.2018.4504>

15-0031 was used in Flow cytometry/Cell sorting to investigate the B cell subset responsible for the secretion of IgM in bone marrow and the spleen.

European journal of immunology (2012; 42: 120)

"B-1 cells in the bone marrow are a significant source of natural IgM."

Author(s):Choi YS,Dieter JA,Rothaeusler K,Luo Z,Baumgarth N

PubMed Article URL:<http://dx.doi.org/10.1002/eji.201141890>

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	15-0031 was used in Flow cytometry/Cell sorting to identify mast cell progenitors in mice and investigate their timeline of commitment to the mast cell lineage.
Mouse / Not Cited	Proceedings of the National Academy of Sciences of the United States of America (2005; 102: 11408) "Identification of mast cell progenitors in adult mice." Author(s):Chen CC,Grimbaldeston MA,Tsai M,Weissman IL,Galli SJ PubMed Article URL: http://dx.doi.org/10.1073/pnas.0504197102
	15-0031 was used in Flow cytometry/Cell sorting to uncover a role of DNA-PKcs T2609 phosphorylation in promoting cNHEJ repair pathway choice during CSR.
Mouse / Not Cited	Proceedings of the National Academy of Sciences of the United States of America (2020; 117: 22953) "DNA-PKcs phosphorylation at the T2609 cluster alters the repair pathway choice during immunoglobulin class switch recombination." Author(s):Crowe JL,Wang XS,Shao Z,Lee BJ,Estes VM,Zha S PubMed Article URL: http://dx.doi.org/10.1073/pnas.2007455117
	15-0031-82 was used in Flow Cytometry to examine immune cells and cytokine profiles of Trichinella spiralis infected mice by Meso Scale Discovery (MSD) and flow cytometry.
Human / Not Cited	Parasite (Paris, France) (2020; 26:) "Regulation of host immune cells and cytokine production induced by Trichinella spiralis infection." Author(s):Song Y,Xu J,Wang X,Yang Y,Bai X,Pang J,Wang X,Yu M,Liu M,Liu X,Sun S PubMed Article URL: http://dx.doi.org/10.1051/parasite/2019074
	15-0031 was used in Flow cytometry/Cell sorting to explore a possible correlation between T cell activation and changes in emotional behavior in a multiple sclerosis mouse model.
Mouse / Not Cited	Frontiers in immunology (2013; 4:) "Emotional change-associated T cell mobilization at the early stage of a mouse model of multiple sclerosis." Author(s):Piras G,Rattazzi L,McDermott A,Deacon R,D'Acquisto F PubMed Article URL: http://dx.doi.org/10.3389/fimmu.2013.00400
	15-0031 was used in Flow cytometry/Cell sorting to provide insights into cellular and molecular mechanisms underlying the effects of sleep deprivation on HSCs.
Mouse / Not Cited	Nature communications (2015; 6:) "Sleep disruption impairs haematopoietic stem cell transplantation in mice." Author(s):Rolls A,Pang WW,Ibarra I,Colas D,Bonnavion P,Korin B,Heller HC,Weissman IL,de Lecea L PubMed Article URL: http://dx.doi.org/10.1038/ncomms9516
	15-0031 was used in Flow cytometry/Cell sorting to investigate the relative contribution of immunoglobulin-dependent effector pathways to anaphylactic responses to food.
Mouse / Not Cited	The Journal of allergy and clinical immunology (2011; 127: 1552) "Distinct immune effector pathways contribute to the full expression of peanut-induced anaphylactic reactions in mice." Author(s):Arias K,Chu DK,Flader K,Botelho F,Walker T,Arias N,Humbles AA,Coyle AJ,Oettgen HC,Chang HD,Van Rooijen N,Waserman S,Jordana M PubMed Article URL: http://dx.doi.org/10.1016/j.jaci.2011.03.044
	15-0031 was used in Flow cytometry/Cell sorting to show how the inhibition of tertiary lymphoid tissue may constitute a therapeutic approach for treating acute kidney injury in the elderly.
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