

CD45.2 Monoclonal Antibody (104), PerCP-Cyanine5.5, eBioscience™

Catalog Number 45-0454-82

Product data sheet

Details	
Size	100 µg
Host/Isotope	Mouse / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	104
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	Mouse
Published species	Fish, Mouse, Not Applicable
Tested Applications	
Flow Cytometry (Flow)	1 µg/test
Published Applications	
Flow Cytometry (Flow)	See 54 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 104 monoclonal antibody reacts with the mouse CD45 molecule, the leukocyte common antigen (LCA) in CD45.2-expressing mouse strains. The strains that express CD45.2 include the most commonly used mouse strains C57BL/6, BALB/c, C58, DBA/1, DBA/2, C3H/He, CBA, 129, A and AKR. CD45.2 is expressed by all leukocytes in these strains. Applications Reported: This 104 antibody has been reported for use in flow cytometric analysis. Applications Tested: This 104 antibody has been tested by flow cytometric analysis of BALB/c splenocytes. This can be used at less than or equal to 1 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. Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

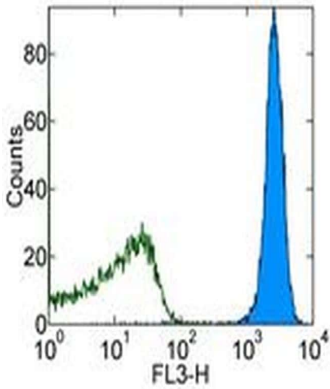
CD45.2 (LCA, leukocyte common antigen) is a receptor-type protein tyrosine phosphatase ubiquitously expressed in all nucleated hematopoietic cells, comprising approximately 10% of all surface proteins in lymphocytes. CD45.2 glycoprotein is crucial in lymphocyte development and antigen signaling, serving as an important regulator of Src-family kinases. CD45.2 protein exists as multiple isoforms as a result of alternative splicing; these isoforms differ in their extracellular domains, whereas they share identical transmembrane and cytoplasmic domains. These isoforms differ in their ability to translocate into the glycosphingolipid-enriched membrane domains and their expression depends on cell type and physiological state of the cell. Besides the role in immunoreceptor signaling, CD45.2 is important in promoting cell survival by modulating integrin-mediated signal transduction pathway and is also involved in DNA fragmentation during apoptosis. CD45RA is an isoform of the CD45 complex and has restricted expression between different subtypes of lymphoid cells.

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CD45.2 Antibody (45-0454-82) in Flow

Staining of BALB/c splenocytes with 0.5 µg of Mouse IgG2a K Isotype Control PerCP-Cyanine5.5 (Product # 45-4724-82) (open histogram) or 0.5 µg of Anti-Mouse CD45.2 PerCP-Cyanine5.5 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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54 Flow Cytometry References

Species / Dilution	Summary
	<p>45-0454 was used in Flow cytometry/Cell sorting to investigate the role of the transcriptional repressor Snai3 protein in the derivation of cells of the haematopoietic system.</p>
Mouse / Not Cited	<p>European journal of immunology (2012; 42: 1038) "Overexpression of Snai3 suppresses lymphoid- and enhances myeloid-cell differentiation." Author(s):Dahlem T,Cho S,Spangrude GJ,Weis JJ,Weis JH PubMed Article URL:http://dx.doi.org/10.1002/eji.201142193</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to study the Notch-Delta interactions that promote T cell development.</p>
Mouse / Not Cited	<p>The Journal of experimental medicine (2007; 204: 331) "Hierarchy of Notch-Delta interactions promoting T cell lineage commitment and maturation." Author(s):Besseyrias V,Fiorini E,Strobl LJ,Zimber-Strobl U,Dumortier A,Koch U,Arcangeli ML,Ezine S,Macdonald HR,Radtke F PubMed Article URL:http://dx.doi.org/10.1084/jem.20061442</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to highlight viruses as attractive tools for eliciting effective antitumour responses upon DC vaccination.</p>
Mouse / Not Cited	<p>The Journal of clinical investigation (2011; 121: 2570) "Virus-induced tumor inflammation facilitates effective DC cancer immunotherapy in a Treg-dependent manner in mice." Author(s):Woller N,Knocke S,Mundt B,Gürlevik E,Strüver N,Kloos A,Boozari B,Schache P,Manns MP,Malek NP,Sparwasser T,Zender L,Wirth TC,Kubicka S,Kühnel F PubMed Article URL:http://dx.doi.org/10.1172/JCI45585</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to investigate the role of the peripheral B cell pro-survival cytokine BAFF /BLyS in the regulation of immunological tolerance and autoreactive cells.</p>
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2011; 187: 37) "Cellular competition independent of BAFF/B lymphocyte stimulator results in low frequency of an autoreactive clonotype in mature polyclonal B cell compartments." Author(s):Nikbakht N,Migone TS,Ward CP,Manser T PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1003924</p>
	<p>45-0454-82 was used in Flow cytometry/Cell sorting to reveal that differential dynamics of Bach2 protein and transcripts in activated B cells control their cell-fate outcomes and imprint the fates of their descendant effector cells.</p>
Mouse / Not Cited	<p>Cell reports (2022; 40:) "Diverging regulation of Bach2 protein and RNA expression determine cell fate in early B cell response." Author(s):Hu Q,Xu T,Zhang M,Zhang H,Liu Y,Li HB,Chen C,Zheng J,Zhang Z,Li F,Shen N,Zhang W,Melnick A,Huang C PubMed Article URL:http://dx.doi.org/10.1016/j.celrep.2022.111035</p>
	<p>45-0454-82 was used in Flow Cytometry to suggest an in vivo role of the inflammatory RIPK1-caspase-8-FADD (FADDosome) complex and reveal a FADD-independent inflammatory role of caspase-8 that involves activation of an inflammasome.</p>
Mouse / Not Cited	<p>Immunity (2020; 52: 994) "Caspase-8-Dependent Inflammatory Responses Are Controlled by Its Adaptor, FADD, and Necroptosis." Author(s):Tummers B,Mari L,Guy CS,Heckmann BL,Rodriguez DA,Rühl S,Moretti J,Crawford JC,Fitzgerald P,Kanneganti TD,Janke LJ,Pelletier S,Blander JM,Green DR PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2020.04.010</p>
	<p>45-0454-82 was used in Flow Cytometry to show increased formation of Tfh precursors (pre-Tfh) but no associated increase in germinal centre (GC)-Tfh cells in aged mice, suggesting age-driven promotion of only early Tfh cell differentiation.</p>
Mouse / Not Cited	<p>Aging cell (2021; 20:) "Ageing promotes early T follicular helper cell differentiation by modulating expression of RBPJ." Author(s):Webb LMC,Fra-Bido S,Innocentin S,Matheson LS,Attaf N,Bignon A,Novarino J,Fazilleau N,Linterman MA PubMed Article URL:http://dx.doi.org/10.1111/accel.13295</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to provide evidence that IFN- acts to control infection by directly promoting myeloid cell differentiation.</p>
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2011; 186: 1032) "Infection-induced myelopoiesis during intracellular bacterial infection is critically dependent upon IFN- signaling." Author(s):MacNamara KC,Oduro K,Martin O,Jones DD,McLaughlin M,Choi K,Borjesson DL,Winslow GM PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1001893</p>

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	45-0454-82 was used in Flow cytometry/Cell sorting to investigate whether inflammasomes provide sufficient signals to activate adaptive immunity.
Mouse / 1:100	eLife (2021; 10:) "Inflammasome activation leads to cDC1-independent cross-priming of CD8 T cells by epithelial cell-derived antigen." Author(s):Deets KA,Nichols Doyle R,Rauch I,Vance RE PubMed Article URL: http://dx.doi.org/10.7554/eLife.72082
	45-0454 was used in Flow cytometry/Cell sorting to elucidate the causal relationship between obesity-induced insulin resistance, and macrophage accumulation and inflammation in adipose tissue.
Mouse / Not Cited	The Journal of clinical investigation (2018; 128: 1538) "Insulin resistance causes inflammation in adipose tissue." Author(s):Shimobayashi M,Albert V,Woelnerhanssen B,Frei IC,Weissenberger D,Meyer-Gerspach AC,Clement N,Moes S,Colombi M,Meier JA,Swierczynska MM,Jenö P,Beglinger C,Peterli R,Hall MN PubMed Article URL: http://dx.doi.org/10.1172/JCI96139
	45-0454 was used in Flow cytometry/Cell sorting to study how the requirements for Runx1 in erythroid/myeloid progenitors and hematopoietic stem cell formation are temporally distinct.
Mouse / Not Cited	Development (Cambridge, England) (2013; 140: 3765) "Distinct temporal requirements for Runx1 in hematopoietic progenitors and stem cells." Author(s):Tober J,Yzaguirre AD,Piwarzyk E,Speck NA PubMed Article URL: http://dx.doi.org/10.1242/dev.094961
	45-0454 was used in Flow cytometry/Cell sorting to show EBI2-mediated chemotaxis provides a third dimension to B cell migration that balances and integrates with the inputs from CXCR5 and CCR7 to determine B cell positioning.
Mouse / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2011; 187: 4621) "EBI2 operates independently of but in cooperation with CXCR5 and CCR7 to direct B cell migration and organization in follicles and the germinal center." Author(s):Gatto D,Wood K,Brink R PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1101542
	45-0454 was used in Flow cytometry/Cell sorting to describe the in vivo ribopuromycylation method.
Mouse / 1:150	Journal of immunology (Baltimore, Md. : 1950) (2016; 197: 1498) "Protein Translation Activity: A New Measure of Host Immune Cell Activation." Author(s):Seedhom MO,Hickman HD,Wei J,David A,Yewdell JW PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1600088
	45-0454-82 was used in Flow Cytometry to show that intestine-draining mesenteric lymph nodes (MLNs), not intestine proper, are the dominant site of SFB-induced intestinal Th17 cell differentiation.
Mouse / Not Cited	Cell reports (2021; 36:) "Redundant cytokine requirement for intestinal microbiota-induced Th17 cell differentiation in draining lymph nodes." Author(s):Sano T,Kageyama T,Fang V,Kedmi R,Martinez CS,Talbot J,Chen A,Cabrera I,Gorshko O,Kurakake R,Yang Y,Ng C,Schwab SR,Littman DR PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2021.109608
	45-0454 was used in Flow cytometry/Cell sorting to investigate the role of IL-33 in cancer immune-surveillance against primary tumours.
Mouse / Not Cited	Scientific reports (2016; 6:) "Discovery of a Metastatic Immune Escape Mechanism Initiated by the Loss of Expression of the Tumour Biomarker Interleukin-33." Author(s):Saranchova I,Han J,Huang H,Fenninger F,Choi KB,Munro L,Pfeifer C,Welch I,Wyatt AW,Fazli L,Gleave ME,Jefferies WA PubMed Article URL: http://dx.doi.org/10.1038/srep30555
	45-0454-82 was used in Flow cytometry/Cell sorting to demonstrate that pathology initiates dermis-specific macrophage differentiation and show that aGVHD-primed macrophages continue to dominate the dermal compartment at the relative expense of quiescent MHCIIint cells.
Mouse / Not Cited	Cell reports (2022; 39:) "Loss of T cell tolerance in the skin following immunopathology is linked to failed restoration of the dermal niche by recruited macrophages." Author(s):West HC,Davies J,Henderson S,Adegun OK,Ward S,Ferrer IR,Tye CA,Vallejo AF,Jardine L,Collin M,Polak ME,Bennett CL PubMed Article URL: http://dx.doi.org/10.1016/j.celrep.2022.110819

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	<p>45-0454 was used in Flow cytometry/Cell sorting to study how exploitation of immunosuppressive effects by L.major following rapid uptake by skin neutrophils allows inhibition of acquired resistance.</p>
Mouse / Not Cited	<p>PLoS pathogens (2012; 8:) "Efficient capture of infected neutrophils by dendritic cells in the skin inhibits the early anti-leishmania response." Author(s):Ribeiro-Gomes FL,Peters NC,Debrabant A,Sacks DL PubMed Article URL:http://dx.doi.org/10.1371/journal.ppat.1002536</p>
	<p>45-0454-82 was used in Flow Cytometry to show that IL-22, a cytokine produced by RORt+ lymphocytes inhibits IL-13-induced tuft cell differentiation in vitro, and suppresses the tuft cell-type 2 immune circuit and small intestine lengthening in vivo, highlighting its key role in gut tissue remodeling.</p>
Mouse / Not Cited	<p>Nature communications (2021; 12:) "Mitochondrial transcription factor A in RORt<sup>+</sup> lymphocytes regulate small intestine homeostasis and metabolism." Author(s):Fu Z,Dean JW,Xiong L,Dougherty MW,Oliff KN,Chen ZE,Jobin C,Garrett TJ,Zhou L PubMed Article URL:http://dx.doi.org/10.1038/s41467-021-24755-9</p>
	<p>45-0454-82 was used in Flow Cytometry to identify a transcriptional program that links the CD4+ lineage with Tfh differentiation, a limiting factor for efficient B cell responses.</p>
Mouse / Not Cited	<p>Immunity (2019; 51: 465) "A Thpok-Directed Transcriptional Circuitry Promotes Bcl6 and Maf Expression to Orchestrate T Follicular Helper Differentiation." Author(s):Vacchio MS,Ciucci T,Gao Y,Watanabe M,Balmaceno-Criss M,McGinty MT,Huang A,Xiao Q,McConkey C,Zhao Y,Shetty J,Tran B,Pepper M,Vahedi G,Jenkins MK,McGavern DB,Bosselut R PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2019.06.023</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to identify discrete lineages of intestinal antigen-specific CD8+ T cells, including a Blimp1hld3lo tissue-resident effector cell population most prominent in the early phase of acute viral and bacterial infections and a molecularly distinct Blimp1old3hi tissue-resident memory population that subsequently accumulated at later infection time points.</p>
Mouse / Not Cited	<p>Immunity (2020; 52: 808) "Heterogenous Populations of Tissue-Resident CD8<sup>+</sup> T Cells Are Generated in Response to Infection and Malignancy." Author(s):Milner JJ,Toma C,He Z,Kurd NS,Nguyen QP,McDonald B,Quezada L,Widjaja CE,Witherden DA,Crowl JT,Shaw LA,Yeo GW,Chang JT,Omilusik KD,Goldrath AW PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2020.04.007</p>
	<p>45-0454-82 was used in Flow cytometry/Cell sorting to surmise that immunological, metabolic, epithelial, and microbial modes of action of the live E. hirae cooperate to circumvent primary resistance to therapy.</p>
Mouse / Not Cited	<p>Cell death and differentiation (2021; 28: 2276) "Multifaceted modes of action of the anticancer probiotic Enterococcus hirae." Author(s):Goubet AG,Wheeler R,Fluckiger A,Qu B,Lemaître F,Iribarren K,Mondragón L,Tidjani Alou M,Pizzato E,Durand S,Derosa L,Aprahamian F,Bossut N,Moya-Nilges M,Derrien D,Chen G,Leduc M,Joseph A,Pons N,Le Chatelier E,Segata N,Yonekura S,Iebba V,Kepp O,Raoult D,André F,Kroemer G,Boneca IG,Zitvogel L,Daillère R PubMed Article URL:http://dx.doi.org/10.1038/s41418-021-00753-8</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to study the role of type 2 innate lymphoid cells in enhancing anti-cancer immunity and controlling metastasis.</p>
Mouse / Not Cited	<p>Scientific reports (2018; 8:) "Type 2 Innate Lymphocytes Actuate Immunity Against Tumours and Limit Cancer Metastasis." Author(s):Saranchova I,Han J,Zaman R,Arora H,Huang H,Fenninger F,Choi KB,Munro L,Pfeifer CG,Welch I,Takei F,Jefferies WA PubMed Article URL:http://dx.doi.org/10.1038/s41598-018-20608-6</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to show that despite impaired proliferation and IL2 production, tolerant T cells can display inflammatory responses in response to antigen stimulation and this is controlled at least partly by Egr2 and 3.</p>
Mouse / Not Cited	<p>Immunity, inflammation and disease (2018; 6: 221) "Transcription factors early growth response gene (Egr) 2 and 3 control inflammatory responses of tolerant T cells." Author(s):Omodho B,Miao T,Symonds ALJ,Singh R,Li S,Wang P PubMed Article URL:http://dx.doi.org/10.1002/iid3.210</p>

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	<p>45-0454 was used in Flow cytometry/Cell sorting to test the prediction that RARA (retinoic acid receptor alpha) haploinsufficiency would contribute to acute promyelocytic leukemia (APL) pathogenesis.</p>
Mouse / Not Cited	<p>Blood (2011; 117: 2460) "Rara haploinsufficiency modestly influences the phenotype of acute promyelocytic leukemia in mice." Author(s):Welch JS,Klco JM,Varghese N,Nagarajan R,Ley TJ PubMed Article URL:http://dx.doi.org/10.1182/blood-2010-08-300087</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to elucidate the initial factors that trigger the inflammatory cascade during angiotensin II-induced cardiovascular injury.</p>
Mouse / Not Cited	<p>Hypertension (Dallas, Tex. : 1979) (2014; 63: 1241) "S100a8/a9 released by CD11b+Gr1+ neutrophils activates cardiac fibroblasts to initiate angiotensin II-Induced cardiac inflammation and injury." Author(s):Wu Y,Li Y,Zhang C,A X,Wang Y,Cui W,Li H,Du J PubMed Article URL:http://dx.doi.org/10.1161/HYPERTENSIONAHA.113.02843</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to report that the small molecule YH250 stimulates hematopoiesis in lethally or sublethally irradiated mice.</p>
Mouse / Not Cited	<p>PloS one (2017; 12:) "Small molecule p300/catenin antagonist enhances hematopoietic recovery after radiation." Author(s):Zhao Y,Wu K,Nguyen C,Smbatyan G,Melendez E,Higuchi Y,Chen Y,Kahn M PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0177245</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to investigate how dual TCR rearrangements enhance positive selection and alter allo- and autoreactive T cell repertoires.</p>
Mouse / Not Cited	<p>Journal of immunology (Baltimore, Md. : 1950) (2014; 193: 1778) "The ability to rearrange dual TCRs enhances positive selection, leading to increased Allo- and Autoreactive T cell repertoires." Author(s):Ni PP,Solomon B,Hsieh CS,Allen PM,Morris GP PubMed Article URL:http://dx.doi.org/10.4049/jimmunol.1400532</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to identify a critical regulatory circuit that tailors HSC responses to acute needs, and is likely to underlie deregulated blood homeostasis in chronic inflammation conditions.</p>
Mouse / Not Cited	<p>Nature cell biology (2016; 18: 607) "Chronic interleukin-1 exposure drives haematopoietic stem cells towards precocious myeloid differentiation at the expense of self-renewal." Author(s):Pietras EM,Mirantes-Barbeito C,Fong S,Loeffler D,Kovtonyuk LV,Zhang S,Lakshminarasimhan R,Chin CP, Techner JM,Will B,Nerlov C,Steidl U,Manz MG,Schroeder T,Passegué E PubMed Article URL:http://dx.doi.org/10.1038/ncb3346</p>
	<p>45-0454 was used in Flow cytometry/Cell sorting to identify a novel pathway of cross-talk between macrophages and dendritic cells.</p>
Mouse / Not Cited	<p>Immunology (2016; 149: 157) "Macrophages transfer antigens to dendritic cells by releasing exosomes containing dead-cell-associated antigens partially through a ceramide-dependent pathway to enhance CD4(+) T-cell responses." Author(s):Xu Y,Liu Y,Yang C,Kang L,Wang M,Hu J,He H,Song W,Tang H PubMed Article URL:http://dx.doi.org/10.1111/imm.12630</p>
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