

CD8a Monoclonal Antibody (RPA-T8), PE, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Rat, Mouse, Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RPA-T8
Conjugate	PE
Excitation/Emission Max	565/576 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_1724104

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.125 µg)/test	40 Publications
T-Cell Activation (TCA)	-	1 Publication

Product Specific Information

Description: The RPA-T8 monoclonal antibody reacts with the human CD8a molecule, an approximately 32-34 kDa cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha). A majority of thymocytes and a subpopulation of mature T cells and NK cells express CD8a. CD8 binds to MHC class I and through its association with protein tyrosine kinase p56lck plays a role in T-cell development and activation of mature T cells.

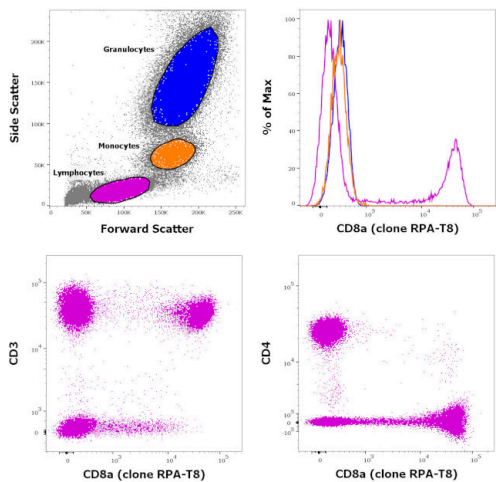
Applications Reported: The RPA-T8 antibody been reported for use in flow cytometric analysis.

Applications Tested: This RPA-T8 antibody is offered in 2 formats: - µg size: has been tested by flow cytometric analysis of normal human peripheral blood cells. 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. - test size: has been pre-titrated and tested by flow cytometric analysis of normal human peripheral blood cells. This can be used at test size: 5 µL (0.125 µg) per test. The pre-titrated test size contains BSA and/or gelatin for protein stabilization.

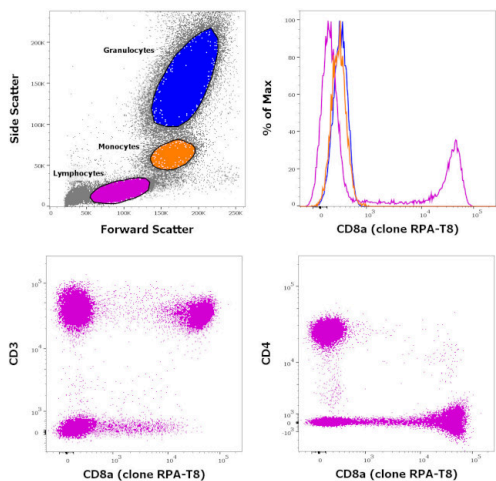
Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

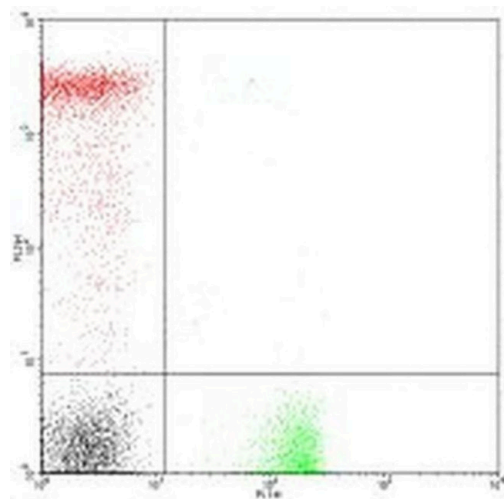
Product Images For CD8a Monoclonal Antibody (RPA-T8), PE, eBioscience™



CD8a Antibody (12-0088-42) in Flow
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 APC, CD8a PE and CD4 PerCP-Cy5.5. As expected based on known relative expression patterns, CD4 clone OKT4 (OKT-4) stains a subset of lymphocytes (pink), but not monocytes (orange) and granulocytes (blue).



CD8a Antibody (12-0088-42)
Staining of human peripheral blood mononuclear cells with CD45 Pacific Blue, CD3 APC, CD8a PE and CD4 PerCP-Cy5.5. As expected based on known relative expression patterns, CD4 clone OKT4 (OKT-4) stains a subset of lymphocytes (pink), but not monocytes (orange) and granulocytes (blue). {RE}



CD8a Antibody (12-0088-42) in Flow
Staining of normal human peripheral blood cells with Anti-Human CD4 FITC (Product # 11-0049-42) and Anti-Human CD8a PE.

View more figures on thermofisher.com

41 References

Flow Cytometry (40)

Targeted suppression of Dpt-specific B cells in humanized Rag2- c- mouse model of HDM allergy.

"12-0088-42 was used in Flow cytometry/Cell sorting to investigate Derp1 in dust mite allergies."

Authors: Ralchev NR,Kerekov N,Mihaylova N,Kremnitzka M,Hristova D,Dzhorev J,Erdei A,Tchorbanov AI

Year
2023

Species
Mouse

Screening of an individualized treatment strategy for an advanced gallbladder cancer using patient-derived tumor xenograft and organoid models.

"12-0088-42 was used in Flow cytometry/Cell sorting to indicate that the combined use of PDO and PDX models can guide the clinical treatment course for gallbladder cancer patients to achieve individualized and effective treatment."

Authors: Tan D,An J,Gong M,Wang H,Li H,Meng H,Zhang C,Zhao Y,Ge X,Shi C

Year
2023

Species
Mouse

View more Flow references on thermofisher.com

T-Cell Activation (1)

Serum amyloid a, C-reactive protein, and procalcitonin levels in children with Mycoplasma pneumoniae infection.

"12-0088-42 was used in T-Cell Activation to show that SAA, CRP, and PCT were specific markers for diagnosing early MP infection in children."

Authors: Jiang Y,Wang W,Zhang Z,Ma X,Sang Y,Wang J,Xu G,Feng Q,Zhao S

Year
2022

Species
Human

More applications with references on thermofisher.com

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.