

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

Product Details	
Size	25 µg
Species Reactivity	Human
Published Species	Rat, Human, Mouse
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
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!
RRID	AB_657771

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	25 Publications

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 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.

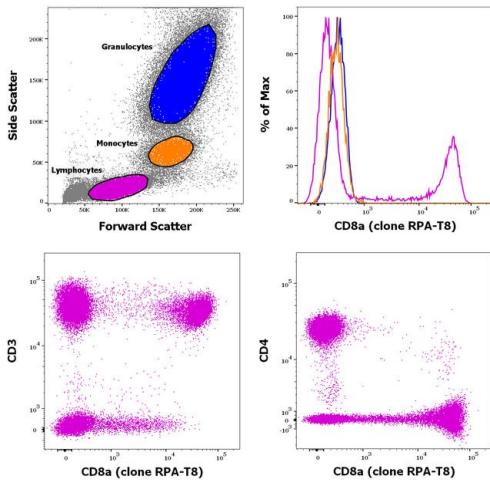
Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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

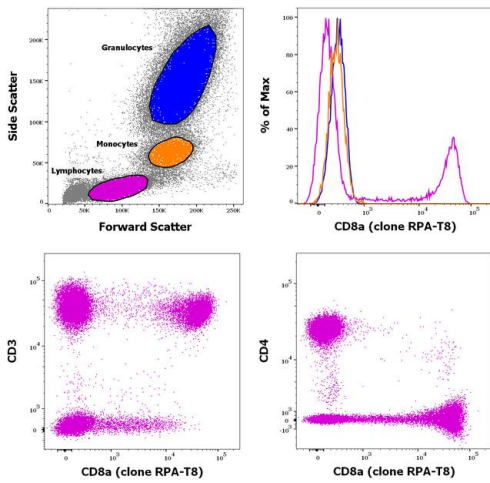
CD8a Antibody (12-0088-80)

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 (12-0088-80) 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).



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26 References

Immunocytochemistry (1)

The Journal of biological chemistry

CD8 Raft localization is induced by its assembly into CD8alpha beta heterodimers, Not CD8alpha alpha homodimers.

"12-0088 was used in Immunofluorescence to investigate raft localisation into CD8 heterodimers versus CD8 homodimers in human cells."

Authors: Pang DJ, Hayday AC, Bijlmakers MJ

Species
Human

Dilution
Not Cited

Year
2007

Flow Cytometry (25)

Stem cells international

Umbilical Cord-Derived Mesenchymal Stem Cells Suppress Autophagy of T Cells in Patients with Systemic Lupus Erythematosus via Transfer of Mitochondria.

"Published figure using CD8a monoclonal antibody (Product # 12-0088-80) in Flow Cytometry"

Authors: Chen J, Wang Q, Feng X, Zhang Z, Geng L, Xu T, Wang D, Sun L

Species
Not Applicable

Dilution
Not Cited

Year
2020

Molecular therapy oncolytics

A Cross-Reactive Small Protein Binding Domain Provides a Model to Study Off-Tumor CAR-T Cell Toxicity.

"Published figure using CD8a monoclonal antibody (Product # 12-0088-80) in Flow Cytometry"

Authors: Hammill JA, Kwiecien JM, Dvorkin-Gheva A, Lau VWC, Baker C, Wu Y, Bezverbnaya K, Aarts C, Heslen CW, Denisova GF, Derocher H, Milne K, Nelson BH, Bramson JL

Species
Not Applicable

Dilution
Not Cited

Year
2020

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More applications with references on thermofisher.com

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