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

Product Details	
Size	25 µg
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	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	33 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.

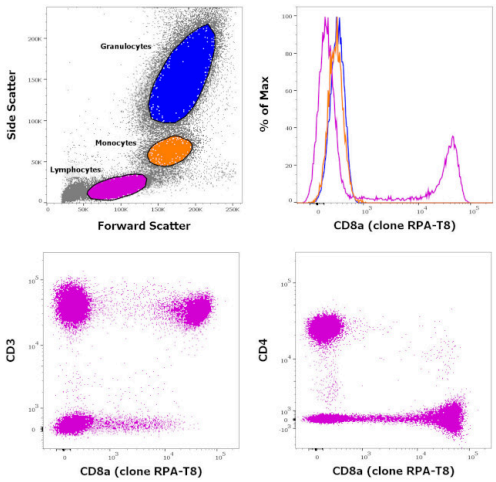
Applications Reported: The RPA-T8 antibody been reported for use in flow cytometric analysis.

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 10^5 to 10^8 cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

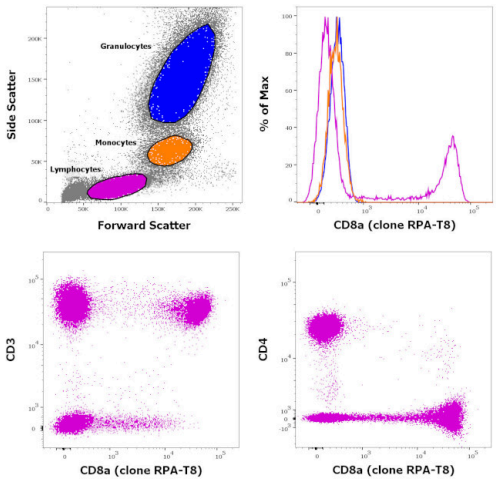
Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

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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34 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

Year
2007

Species
Human

Flow Cytometry (33)

Nature communications

Increased levels of endogenous retroviruses trigger fibroinflammation and play a role in kidney disease development.

"12-0088-80 was used in flow cytometry to indicate an important role of epigenetic derepression-induced ERV activation triggering renal fibroinflammation."

Authors: Dhillon P,Mulholland KA,Hu H,Park J,Sheng X,Abedini A,Liu H,Vassalotti A,Wu J,Susztak K

Year
2023

Species
Mouse

Dilution
1:100

NPJ microgravity

Endothelial dysfunction markers and immune response indices in cosmonauts' blood after long-duration space flights.

"12-0088-80 was used in Flow cytometry/Cell sorting to investigat the markers of endothelial activation and damage (plasma concentrations of soluble thrombomodulin fraction (sTM), von Willebrand factor (vWF), highly sensitive C-reactive protein (hs-CRP)), as well as the level of D-dimer and compared them to the immunological parameters characterizing the state of human humoral and cellular immunity."

Authors: Kuzichkin DS,Nichiporuk IA,Zhuravleva OA,Markin AA,Rykova MP,Zhuravleva TV,Sadova AA,Kutko OV,Shmarov VA,Ponomarev SA

Year
2022

Species
Human

View more Flow references on thermofisher.com

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