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# CD8a Monoclonal Antibody (53-6.7), PE-Cyanine5.5, eBioscience™

r roddor Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Hamster, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine5.5, eBioscience™
Class	Monoclonal
Туре	Antibody
Clone	53-6.7
Conjugate	PE-Cyanine5.5
Excitation/Emission Max	564/692 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_11217674

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	90 Publications
Functional Assay (FN)	-	2 Publications

### **Product Specific Information**

Description: The 53-6.7 monoclonal antibody reacts with the mouse CD8a molecule. CD8a is 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 alpha beta TCR T cells express CD8 alpha beta while gamma delta TCR T cells, a subpopulation of intestinal intraepithelial lymphocytes (IELs) and dendritic cells express CD8 alpha alpha. 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: This 53-6.7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 53-6.7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. 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.

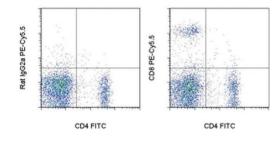
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or

1-step Fix/Lyse Solution (Product # 00-5333-54) 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: 695 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

# Product Images For CD8a Monoclonal Antibody (53-6.7), PE-Cyanine5.5, eBioscience™



### CD8a Antibody (35-0081-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD4 FITC (Product # 11-0041-82) and 0.06 µg of Rat IgG2a K Isotype Control PE-Cyanine5-5 (Product # 35-4321-82) (left) or 0.06 µg of Anti-Mouse CD8a PE-Cyanine5-5 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.cn

# **92** References

# Flow Cytometry (90)

# Specific targeting of IL-1 activity to CD8<sup>+</sup> T cells allows for safe use as a vaccine adjuvant.

"Published figure using CD8a monoclonal antibody (Product # 35-0081-82) in Flow Cytometry"

Authors: Van Den Eeckhout B, Van Hoecke L, Burg E, Van Lint S, Peelman F, Kley N, Uzé G, Saelens X, Tavernier J, Gerlo S

#### **Cell reports**

**NPJ** vaccines

# Candida albicans oscillating UME6 expression during intestinal colonization primes systemic Th17 protective immunity.

"35-0081-82 was used in Flow cytometry/Cell sorting to show that dynamic gene expression fluctuations by C. albicans during symbiotic colonization are essential for priming host immunity against disseminated infection." Authors: Shao TY,Kakade P,Witchley JN,Frazer C,Murray KL,Ene IV,Haslam DB,Hagan T,Noble SM,Bennett RJ,Way SS Species Mouse

**Year** 2006

Year 2022

Year 2023

View more Flow references on thermofisher.cn

# **Functional Assay (2)**

Investigative ophthalmology & visual science	Year
Suppression of alkali burn-induced corneal neovascularization by	2008
dendritic cell vaccination targeting VEGF receptor 2.	
Authors: Mochimaru H,Usui T,Yaguchi T,Nagahama Y,Hasegawa G,Usui Y,Shimmura S,Tsubota K,Amano S, Kawakami Y,Ishida S	

#### Circulation

# Myocardial infarct-sparing effect of adenosine A2A receptor activation is due to its action on CD4+ T lymphocytes.

Authors: Yang Z,Day YJ,Toufektsian MC,Xu Y,Ramos SI,Marshall MA,French BA,Linden J

### More applications with references on thermofisher.cn

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