

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Hamster, Fish, Mouse, Human
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_465530

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	199 Publications
Immunofluorescence (IF)	-		5 Publications
Immunohistochemistry (IHC)	-		2 Publications
Functional Assay (FN)	-		3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-		1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-		1 Publication
Miscellaneous PubMed (MISC)	-		1 Publication

## 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.

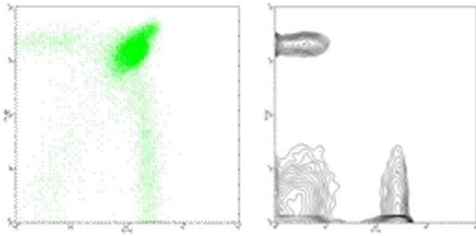
Applications Reported: The 53-6.7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 53-6.7 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. 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<sup>5</sup> to 10<sup>8</sup> 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 (53-6.7), PE, eBioscience™



#### CD8a Antibody (12-0081-82) in Flow

Staining of mouse thymocytes (left) or splenocytes (right) with Anti-Mouse CD4 FITC (Product # 11-0041-82) and 0.125 µg of Anti-Mouse CD8a PE. Total viable cells were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## Flow Cytometry (199)

mSphere

### Microbiota Reconstitution Does Not Cause Bone Loss in Germ-Free Mice.

"Published figure using CD8a monoclonal antibody (Product # 12-0081-82) in Flow Cytometry"

Authors: Quach D,Collins F,Parameswaran N,McCabe L,Britton RA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

Oncology reports

### Inhibiting TrxR suppresses liver cancer by inducing apoptosis and eliciting potent antitumor immunity.

"Published figure using CD8a monoclonal antibody (Product # 12-0081-82) in Flow Cytometry"

Authors: Lei H,Wang G,Zhang J,Han Q

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

[View more Flow references on thermofisher.com](#)

## Immunofluorescence (5)

International journal of clinical and experimental pathology

### BTLA associates with increased Foxp3 expression in CD4(+) T cells in dextran sulfate sodium-induced colitis.

"12-0081 was used in Immunofluorescence to determine that BTLA may be involved in the control of inflammatory responses through increasing Foxp3 expression in DSS-induced colitis."

Authors: Zhang HX,Zhu B,Fu XX,Zeng JC,Zhang JA,Wang WD,Kong B,Xiang WY,Zhong J,Wang CY,Zheng XB,Xu JF

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2016

PLoS pathogens

### Experimental cerebral malaria pathogenesis--hemodynamics at the blood brain barrier.

"12-0081 was used in Flow cytometry/Cell sorting to show that significantly more CD8(+) T cells, neutrophils, and macrophages are recruited to postcapillary venules during ECM compared to hyperparasitemia."

Authors: Nacer A,Movila A,Sohet F,Girgis NM,Gundra UM,Loke P,Daneman R,Frevert U

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2014

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## More applications with references on thermofisher.com

IHC (2) FN (3) IHC (F) (1) IHC (P) (1) MISC (1)

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