

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

## Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	APC
Excitation/Emission Max	651/660 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_469335

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	207 Publications
Functional Assay (FN)	-	3 Publications
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.

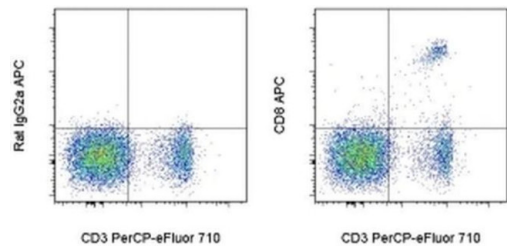
**Applications Reported:** The 53-6.7 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The 53-6.7 antibody has been tested by flow cytometric analysis of mouse thymocyte or splenocyte suspensions. This can be used at less than or equal to 0.125 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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD8a Monoclonal Antibody (53-6.7), APC, eBioscience™**



**CD8a Antibody (17-0081-82) in Flow**  
Staining of mouse splenocytes with Anti-Mouse CD3 PerCP-eFluor® 710 (Product # 46-0032-82) and 0.06 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 0.06 µg of Anti-Mouse CD8a APC (right). Cells in the lymphocyte gate were used for analysis.

Immunohistochemistry (1)

European journal of immunology	Year 2012
<b>Nitric oxide inhibits the accumulation of CD4+CD44hiTbet+CD69lo T cells in mycobacterial infection.</b>	Species Mouse
"17-0081 was used in Immunohistochemistry to support the hypothesis that effector T cells in mycobacterial granulomata are not a uniform effector population but exist in distinct subsets with differential susceptibility to the regulatory effects of nitric oxide."	Dilution 1:200
Authors: Pearl JE,Torrado E,Tighe M,Fountain JJ,Solache A,Strutt T,Swain S,Appelberg R,Cooper AM	

Immunohistochemistry (Paraffin) (1)

European journal of medical research	Year 2017
<b>The inflammatory phase of fracture healing is influenced by oestrogen status in mice.</b>	Species Mouse
"17-0081 was used in Immunohistochemistry to indicate that oestrogen-deficiency influences the early inflammatory phase after fracture."	Dilution 1:800
Authors: Haffner-Luntzer M,Fischer V,Prystaz K,Liedert A,Ignatius A	

Immunocytochemistry (1)

Journal of immunology (Baltimore, Md. : 1950)	Year 2014
<b>Programmed death-1 pathway in host tissues ameliorates Th17/Th1-mediated experimental chronic graft-versus-host disease.</b>	Species Mouse
"17-0081 was used in Flow cytometry/Cell sorting to clarify that programed death-ligand 1 deficiency in host tissues, not hematopoietic cells, is associated with exacerbated chronic graft-versus-host disease."	
Authors: Fujiwara H,Maeda Y,Kobayashi K,Nishimori H,Matsuoka K,Fujii N,Kondo E,Tanaka T,Chen L,Azuma M,Yagita H,Tanimoto M	

Flow Cytometry (207)

Cancer immunology, immunotherapy : CII	Year 2023
<b>Egr2 and 3 maintain anti-tumour responses of exhausted tumour infiltrating CD8+T cells.</b>	Species Mouse
"17-0081-82 was used in Flow cytometry/Cell sorting to conclude that Egr2 and 3 are important for maintaining anti-tumour responses of exhausted CD8 + TiLs."	
Authors: Symonds ALJ,Miao T,Busharat Z,Li S,Wang P	

View more Flow references on thermofisher.com

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- FN (3)
- Misc (1)

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