

CD8a Monoclonal Antibody (53-6.7), Alexa Fluor™ 488, eBioscience™

Product 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), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 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_469897

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	18 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.5 µg/test	106 Publications
Immunoprecipitation (IP)	-	1 Publication
Functional Assay (FN)	-	2 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: This 53-6.7 antibody has been reported for use in flow cytometric analysis.

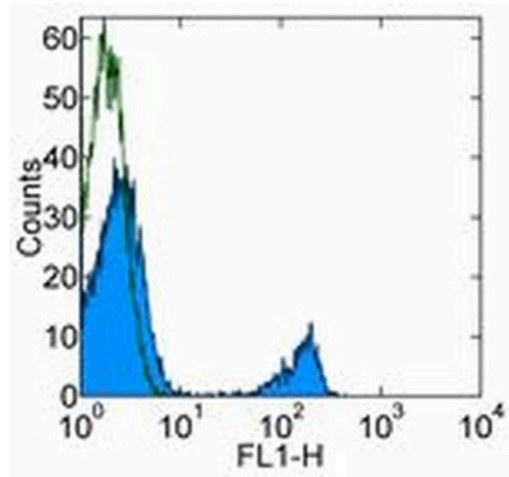
Applications Tested: This 53-6.7 antibody has been tested by flow cytometric analysis of mouse thymocyte or splenocyte

suspensions. This can be used at less than or equal to 0.5 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 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD8a Monoclonal Antibody (53-6.7), Alexa Fluor™ 488, eBioscience™



CD8a Antibody (53-0081-82) in Flow
Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.25 µg of Anti-Mouse CD8a Alexa Fluor® 488 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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Western Blot (2)

eLife	Year 2019
Hemozoin produced by mammals confers heme tolerance.	
"Published figure using CD8a monoclonal antibody (Product # 53-0081-82) in Western Blot"	
Authors: Pek RH,Yuan X,Rietzschel N,Zhang J,Jackson L,Nishibori E,Ribeiro A,Simmons W,Jagadeesh J,Sugimoto H, Alam MZ,Garrett L,Haldar M,Ralle M,Phillips JD,Bodine DM,Hamza I	

Cardiovascular research	Year 2013
Genetic deletion of chemokine receptor Ccr7 exacerbates atherogenesis in ApoE-deficient mice.	
"Published figure using CD8a monoclonal antibody (Product # 53-0081-82) in Flow Cytometry"	
Authors: Wan W,Lionakis MS,Liu Q,Roff� E,Murphy PM	

Immunohistochemistry (18)

Frontiers in physiology	Year 2023
Deficiency in CD4 T Cells Leads to Enhanced Postpartum Internal Carotid Artery Vasoconstriction in Mice: The Role of Nitric Oxide.	
"53-0081-82 was used in Immunohistochemistry to show that dDysregulation of the CD4 T cell population in pregnancy may make ICA vulnerable to vasospasm due to decreased NO-dependent control of ICA constriction."	
Authors: Gokina NI,Fairchild RI,Prakash K,DeLance NM,Bonney EA	
Species Mouse	

Scientific reports	Year 2022
Therapeutic potential of highly functional codon-optimized microtrophin for muscle-specific expression.	
"Published figure using CD8a monoclonal antibody (Product # 53-0081-82) in Immunohistochemistry"	
Authors: Starikova AV,Skopenkova VV,Polikarpova AV,Reshetov DA,Vassilieva SG,Velyaev OA,Shmidt AA,Savchenko IM,Soldatov VO,Egorova TV,Bardina MV	

[View more IHC references on thermofisher.cn](#)

More applications with references on thermofisher.cn

- ICC/IF (7)
- Flow (106)
- IP (1)
- FN (2)
- Misc (1)

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