

CD8a Monoclonal Antibody (53-6.7), Alexa Fluor™ 700, 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™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_494005

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	11 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.125 µg/test	131 Publications
Immunoprecipitation (IP)	-	1 Publication
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.

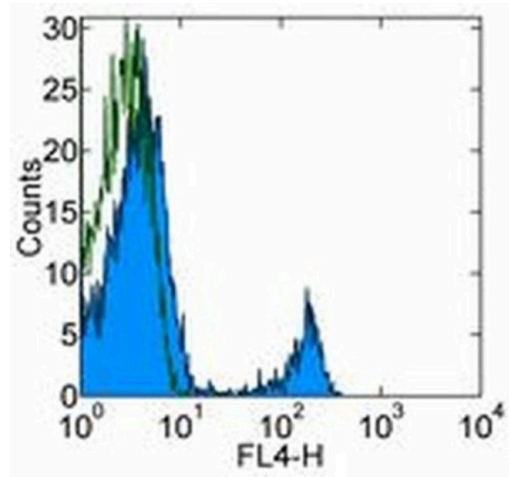
Applications Tested: This 53-6.7 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD8a Monoclonal Antibody (53-6.7), Alexa Fluor™ 700, eBioscience™



CD8a Antibody (56-0081-82) in Flow
Staining of C57BL/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.06 µg of Anti-Mouse CD8a Alexa Fluor® 700 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (11)

Scientific reports	Year 2022
Therapeutic potential of highly functional codon-optimized microtrophin for muscle-specific expression.	
"Published figure using CD8a monoclonal antibody (Product # 56-0081-82) 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	
Clinical and translational medicine	Year 2021
Functional inhibition of lactate dehydrogenase suppresses pancreatic adenocarcinoma progression.	Species Mouse
"56-0081-82 was used in Immunohistochemistry to analyze the clinical-pathological characteristics and prognosis of 253 PAAD patients."	Dilution 1:200
Authors: Cheng CS,Tan HY,Wang N,Chen L,Meng Z,Chen Z,Feng Y	

View more IHC references on thermofisher.com

Immunocytochemistry (6)

Nature communications	Year 2018
Oncofetal gene SALL4 reactivation by hepatitis B virus counteracts miR-200c in PD-L1-induced T cell exhaustion.	
"Published figure using CD8a monoclonal antibody (Product # 56-0081-82) in Immunofluorescence"	
Authors: Sun C,Lan P,Han Q,Huang M,Zhang Z,Xu G,Song J,Wang J,Wei H,Zhang J,Sun R,Zhang C,Tian Z	
Nature	Year 2016
Metabolic maintenance of cell asymmetry following division in activated T lymphocytes.	
"Published figure using CD8a monoclonal antibody (Product # 56-0081-82) in Flow Cytometry"	
Authors: Verbist KC,Guy CS,Milasta S,Liedmann S,Kamiski MM,Wang R,Green DR	

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More applications with references on thermofisher.com

- Flow (131)
- IP (1)
- FN (2)

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