

CD8a Monoclonal Antibody (53-6.7), Alexa Fluor 532, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Published Species	Hamster, Fish, Human, Mouse
Host/Isotope	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Alexa Fluor 532, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	Alexa Fluor® 532
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_11218685

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	67 Publications
Immunofluorescence (IF)	-		9 Publications
Immunohistochemistry (IHC)	-		4 Publications
Immunoprecipitation (IP)	-		1 Publication
Immunocytochemistry (ICC)	-		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.

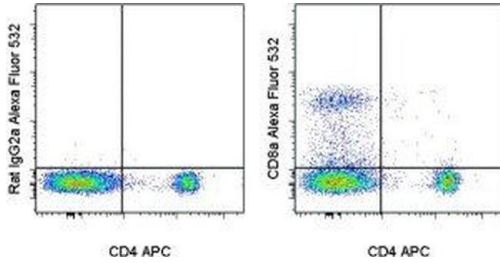
Applications Tested: This 53-6.7 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in

a final volume of 100 μ 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.

Alexa Fluor® 532 is excited with the Green laser (532 nm) and emits at 561 nm. This cannot be used with the Yellow-Green laser (561 nm). We recommend using a 560/14 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 532 nm; Emission: 561 nm; Laser: Green Laser

Product Images For CD8a Monoclonal Antibody (53-6.7), Alexa Fluor 532, eBioscience™



CD8a Antibody (58-0081-80) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD4 APC (Product # 17-0041-82) and 0.125 μ g of Rat IgG2a K Isotype Control Alexa Fluor® 532 (Product # 58-4321-80) (left) or 0.125 μ g of Anti-Mouse CD8a Alexa Fluor® 532 (right). Total viable cells were used for analysis.

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

Flow Cytometry (67)

mSphere

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

"Published figure using CD8a monoclonal antibody (Product # 58-0081-80) 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 # 58-0081-80) 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 (9)

Nature communications

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 # 58-0081-80) 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

Species
Not Applicable

Dilution
Not Cited

Year
2018

PLoS one

MHC-I and PirB Upregulation in the Central and Peripheral Nervous System following Sciatic Nerve Injury.

"Published figure using CD8a monoclonal antibody (Product # 58-0081-80) in Immunofluorescence"

Authors: Bombeiro AL, Thomé R, Oliveira Nunes SL, Monteiro Moreira B, Verinaud L, Oliveira AL

Species
Not Applicable

Dilution
Not Cited

Year
2017

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

More applications with references on thermofisher.com

IHC (4) IP (1) ICC (1) FN (2)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.