

CD8a Monoclonal Antibody (53-6.7), eFluor 450, 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), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	eFluor® 450
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_1272198

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	121 Publications
Functional Assay (FN)	-	2 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	9 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunoprecipitation (IP)	-	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 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

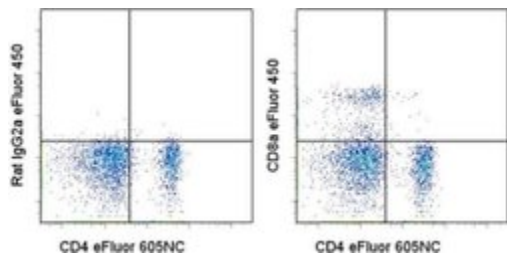
of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD8a Monoclonal Antibody (53-6.7), eFluor 450, eBioscience™



CD8a Antibody (48-0081-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD4 eFluor® 605 and 0.125 μ g of Rat IgG2a K Isotype Control eFluor® 450 (Product # 48-4321-82) (left) or 0.125 μ g of Anti-Mouse CD8a eFluor® 450 (right). Total viable cells were used for analysis.

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

Flow Cytometry (121)

Frontiers in immunology

A New Adjuvant MTOM Mediates *Mycobacterium tuberculosis* Subunit Vaccine to Enhance Th1-Type T Cell Immune Responses and IL-2⁺ T Cells.

"Published figure using CD8a monoclonal antibody (Product # 48-0081-82) in Flow Cytometry"

Authors: Yu Q,Wang X,Fan X

Species
Not Applicable

Dilution
Not Cited

Year
2019

Oncoimmunology

Identification of inhibitors of myeloid-derived suppressor cells activity through phenotypic chemical screening.

"Published figure using CD8a monoclonal antibody (Product # 48-0081-82) in Flow Cytometry"

Authors: Schröder M,Loos S,Naumann SK,Bachran C,Krötschel M,Umansky V,Helming L,Sweet LK

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2019

[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 # 48-0081-82) 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

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 # 48-0081-82) 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)

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