CD8a Monoclonal Antibody (53-6.7), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fruit fly, Hamster, Mouse, Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-6.7
Conjugate	Biotin
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_466346

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	-	12 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	141 Publications
Immunoprecipitation (IP)	-	1 Publication
Functional Assay (FN)	-	3 Publications
Miscellaneous PubMed (Misc)	-	8 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.

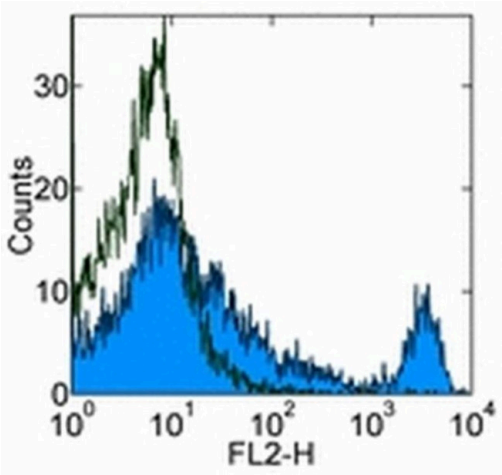
Applications Reported: The 53-6.7 antibody has been reported for use in flow cytometric analysis and immunohistochemistry.

Applications Tested: The 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 0.5 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 10^5 to 10^8 cells/test. It

is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD8a Antibody (13-0081-82) in Flow
Staining of C57BL/6 splenocytes with 0.25 µg of Rat IgG2a K Isotype Control Biotin (Product # 13-4321-82) (open histogram) or 0.25 µg of Anti-Mouse CD8a Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

View more figures on thermofisher.com

173 References

Western Blot (2)

eLife

Hemozoin produced by mammals confers heme tolerance.

"Published figure using CD8a monoclonal antibody (Product # 13-0081-82) 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

Year
2019

Cardiovascular research

Genetic deletion of chemokine receptor Ccr7 exacerbates atherogenesis in ApoE-deficient mice.

"Published figure using CD8a monoclonal antibody (Product # 13-0081-82) in Flow Cytometry"

Authors: Wan W,Lionakis MS,Liu Q,Roffê E,Murphy PM

Year
2013

Immunohistochemistry (12)

Scientific reports

Therapeutic potential of highly functional codon-optimized microutrophin for muscle-specific expression.

"Published figure using CD8a monoclonal antibody (Product # 13-0081-82) 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

Year
2022

Cancers

TIAM2S Mediates Serotonin Homeostasis and Provokes a Pro-Inflammatory Immune Microenvironment Permissive for Colorectal Tumorigenesis.

"Published figure using CD8a monoclonal antibody (Product # 13-0081-82) in Immunohistochemistry"

Authors: Chan YL,Lai WC,Chen JS,Tseng JT,Chuang PC,Jou J,Lee CT,Sun HS

Year
2020

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ICC/IF (6) Flow (141) IP (1) FN (3) Misc (8)