

MHC Class I (H-2Kd) Monoclonal Antibody (SF1-1.1.1), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SF1-1.1.1
Conjugate	Super Bright™ 436
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2744812

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	2 Publications

Product Specific Information

Description: This SF1-1.1.1 monoclonal antibody reacts with the H-2Kd MHC class I alloantigen. H-2Kd is involved in antigen presentation to T cells expressing CD3/TCR and CD8. Reactivity to other haplotypes (e.g. b, j, k, p, q, s, and v) has not been observed.

Applications Reported: This SF1-1.1.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This SF1-1.1.1 antibody has been tested by flow cytometric analysis of mouse 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

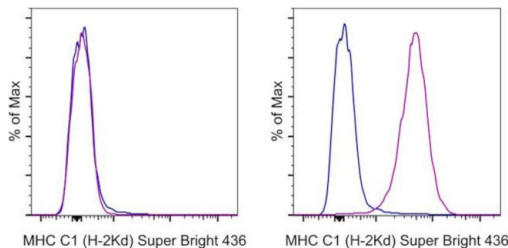
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For MHC Class I (H-2Kd) Monoclonal Antibody (SF1-1.1.1), Super Bright™ 436, eBioscience™



MHC Class I (H-2Kd) Antibody (62-5957-82) in Flow

Staining of C57Bl/6 (left) and BALB/c (right) splenocytes with 0.25 µg of Mouse IgG2a kappa Isotype Control, Super Bright 436 (Product # 62-4724-82) (blue histogram) or 0.25 µg of MHC Class I (H-2Kd) Monoclonal Antibody, Super Bright 436 (purple histogram). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

2 References

Flow Cytometry (2)

Communications biology

Patient-derived xenograft culture-transplant system for investigation of human breast cancer metastasis.

"Published figure using MHC Class I (H-2Kd) monoclonal antibody (Product # 62-5957-82) in Flow Cytometry"

Authors: Ma D,Hernandez GA,Lefebvre AEYT,Alshetawi H,Blake K,Dave KR,Rauf M,Williams JW,Davis RT,Evans KT, Longworth A,Masoud MYG,Lee R,Edwards RA,Digman MA,Kessenbrock K,Lawson DA

Year
2021

Nature communications

Targeting photodynamic and photothermal therapy to the endoplasmic reticulum enhances immunogenic cancer cell death.

"Published figure using MHC Class I (H-2Kd) monoclonal antibody (Product # 62-5957-82) in Flow Cytometry"

Authors: Li W,Yang J,Luo L,Jiang M,Qin B,Yin H,Zhu C,Yuan X,Zhang J,Luo Z,Du Y,Li Q,Lou Y,Qiu Y,You J

Year
2019

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