

MHC Class I (H-2Kd) Monoclonal Antibody (SF1-1.1.1), PerCP-eFluor 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Artificial Control, Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), PerCP-eFluor 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SF1-1.1.1
Conjugate	PerCP-eFluor™ 710
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_10735380

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	4 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 0.25 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 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.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

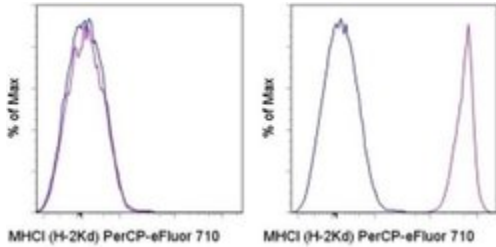
Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly

prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For MHC Class I (H-2Kd) Monoclonal Antibody (SF1-1.1.1), PerCP-eFluor 710, eBioscience™



MHC Class I (H-2Kd) Antibody (46-5957-82) in Flow

Staining of C57Bl/6 (left) or BALB/c (right) splenocytes with 0.125 µg of Mouse IgG2a K Isotype Control PerCP-eFluor® 710 (Product # 46-4724-82) (blue histogram) or 0.125 µg of Anti-Mouse MHC Class I (H-2Kd) PerCP-eFluor® 710 (purple histogram). Cells in the lymphocyte gate were used for analysis.

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

4 References

Flow Cytometry (4)

Scientific reports

Reprogramming MHC specificity by CRISPR-Cas9-assisted cassette exchange.

"46-5957 was used in Flow Cytometry to demonstrate a proof-of-concept for reprogramming MHC-specificity by performing CRISPR-Cas9-assisted cassette exchange."

Authors: Kelton W, Waindok AC, Pesch T, Pogson M, Ford K, Parola C, Reddy ST

Species
Mouse

Dilution
Not Cited

Year
2017

European journal of immunology

Dietary gluten increases natural killer cell cytotoxicity and cytokine secretion.

"Published figure using MHC Class I (H-2Kd) monoclonal antibody (Product # 46-5957-82) in Flow Cytometry"

Authors: Larsen J, Dall M, Antvorskov JC, Weile C, Engkilde K, Josefsen K, Buschard K

Species
Not Applicable

Dilution
Not Cited

Year
2014

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

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