

MHC Class I (H-2Kd) Monoclonal Antibody (SF1-1.1.1), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	SF1-1.1.1
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_10670098

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	11 Publications
Functional Assay (FN)	Assay-Dependent	-
Inhibition Assays (IA)	-	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.

This monoclonal antibody has been reported to block CD8 involvement in TCR-ligand binding.

Applications Reported: This SF1-1.1.1 antibody has been reported for use in functional assays.

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 0.125 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.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

13 References

Flow Cytometry (11)

Communications biology	Year 2021
Patient-derived xenograft culture-transplant system for investigation of human breast cancer metastasis.	
"Published figure using MHC Class I (H-2Kd) monoclonal antibody (Product # 16-5957-82) in Flow Cytometry"	
Authors: Ma D,Hernandez GA,Lefebvre AEYT,Alshetaiwi 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	
Stem cell research & therapy	Year 2020
Multipotency of mouse trophoblast stem cells.	
"Published figure using MHC Class I (H-2Kd) monoclonal antibody (Product # 16-5957-82) in Flow Cytometry"	
Authors: Hou M,Han J,Li G,Kwon MY,Jiang J,Emani S,Taglauer ES,Park JA,Choi EB,Vodnala M,Fong YW,Emani SM, Rosas IO,Perrella MA,Liu X	

View more Flow references on thermofisher.cn

Inhibition Assays (2)

Nature communications	Year 2018
Lin⁺CCR2⁺ hematopoietic stem and progenitor cells overcome resistance to PD-1 blockade.	Species Mouse
"16-5957-82 was used in Inhibition Assays to elucidate a novel role for CCR2+ haematopoietic stem cells in overcoming brain tumour resistance to PD-1 checkpoint blockade and adoptive cellular therapy in multiple invasive brain tumour models."	
Authors: Flores CT,Wildes TJ,Drake JA,Moore GL,Dean BD,Abraham RS,Mitchell DA	
PloS one	Year 2015
Intraperitoneal administration of a tumor-associated antigen SART3, CD40L, and GM-CSF gene-loaded polyplex micelle elicits a vaccine effect in mouse tumor models.	Species Mouse
"16-5957 was used in Blocking experiments to investigate the potential of a non-viral polyplex micelle-based DNA vaccine in mouse tumour models with different MHC haplotypes."	
Authors: Furugaki K,Cui L,Kunisawa Y,Osada K,Shinkai K,Tanaka M,Kataoka K,Nakano K	

More applications with references on thermofisher.cn

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