MHC Class II I-Ab Monoclonal Antibody (AF6-120.1), Super Bright™ 780, 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), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	AF6-120.1
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	0.2 mg/mL
Amount	100 µg
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_2784902

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	4 Publications

Product Specific Information

Description: This AF6-120.1 monoclonal antibody reacts with the mouse MHC Class II I-Ab alloantigen of H-2b bearing mouse strains, including C57Bl/6 and 129. This cell surface molecule is involved in antigen presentation to T cells expressing CD3/TCR and CD4.

The AF6-120.1 antibody crossreacts with H-2k and H-2u haplotypes. However, reactivity to other haplotypes (i.e., d, f, g7, p, q, r, and s) has not been observed.

Applications Reported: This AF6-120.1 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This AF6-120.1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 1.0 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.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

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.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

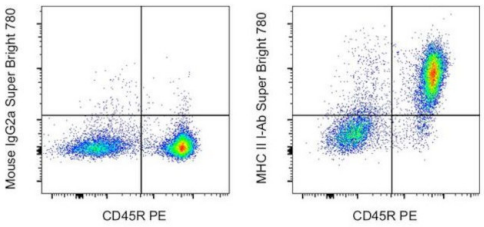
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 780 nm; Laser: Violet Laser

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

Please note: We are reviewing Western blot images included in the antibody testing data in our catalog, including those provided by third parties. Unless expressly labeled or annotated as "raw-unedited", Western blot images included in the antibody testing data in our catalog may have been edited, optimized or otherwise adjusted for presentation.

Product Images For MHC Class II I-Ab Monoclonal Antibody (AF6-120.1), Super Bright™ 780, eBioscience™



MHC Class II I-Ab Antibody (78-5320-82) in Flow
C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, PE (Product # 12-0452-82) and 0.5 µg of Mouse IgG2a kappa Isotype Control, Super Bright 780 (Product # 78-4724-82) (left) or 0.5 µg of MHC Class II I-Ab Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

4 References

Flow Cytometry (4)

Acta neuropathologica communications

Year
2021

Gut microbial dysbiosis after traumatic brain injury modulates the immune response and impairs neurogenesis.

"Published figure using MHC Class II I-Ab monoclonal antibody (Product # 78-5320-82) in Flow Cytometry"

Authors: Celorrio M, Abellanas MA, Rhodes J, Goodwin V, Moritz J, Vadivelu S, Wang L, Rodgers R, Xiao S, Anabayan I, Payne C, Perry AM, Baldridge MT, Aymerich MS, Steed A, Friess SH

Cell death and differentiation

Year
2021

Loss of p53 in mesenchymal stem cells promotes alteration of bone remodeling through negative regulation of osteoprotegerin.

"Published figure using MHC Class II I-Ab monoclonal antibody (Product # 78-5320-82) in Flow Cytometry"

Authors: Velletri T, Huang Y, Wang Y, Li Q, Hu M, Xie N, Yang Q, Chen X, Chen Q, Shou P, Gan Y, Candi E, Annicchiarico-Petruzzelli M, Agostini M, Yang H, Melino G, Shi Y, Wang Y

View more Flow references on thermofisher.com

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