

# Ea52-68 peptide bound to I-Ab Monoclonal Antibody (eBioY-Ae (YAe, Y-Ae)), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotope	Mouse / IgG2b
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioY-Ae (YAe, Y-Ae)
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_657821

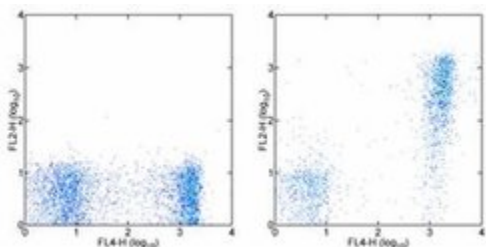
Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	11 Publications

## Product Specific Information

Description: The Y-Ae antibody reacts with a class II major histocompatibility complex (MHC) self Ea peptide (peptide 52-68) bound to I-Ab molecules. The Y-Ae antibody detects a determinant expressed on a subset of class II I-Ab molecules in strains that also express class II I-Eb. This determinant is expressed on peripheral B cells and on cells in the thymic medulla, but not thymic cortical epithelium. In addition to B cells, the Y-Ae determinant is expressed at comparable levels on other antigen presenting cells, including macrophages and dendritic cells. The antibody does not react with invariant chain-associated class II MHC complexes.   
 The reactivity of the Y-Ae antibody is MHC-restricted. The Y-Ae antibody was generated by immunization of [B10.MBR x B10.D2]F1 recipients with B10A(5R) LPS blasts. In this strain combination, there is incompatibility for I-Ab and I-Eb molecules. The antibody reacts with 10-15% of surface I-Ab molecules in strains that also express surface I-Eb molecules (e.g., strains B10.A(5R) and B10.A(3R)). The antibody does not react with I-A molecules in strains that have a non-functional I-E (a chain) gene (e.g., strains B6 and B10), nor with mutant I-A molecules (e.g., (B6.c-H-2bm-12 x A.TFR5)F1), nor with any other strain tested. The Y-Ae antibody recognizes an Ea peptide (Ea 52-68) bound to I-Ab molecules, but not to Ea 52-68 peptide bound to I-Ak or I-Abm-12 molecules.   
 Applications Reported: This eBioY-Ae (YAe, Y-Ae) antibody has been reported for use in flow cytometric analysis.   
 Applications Tested: This eBioY-Ae (YAe, Y-Ae) antibody has been tested by flow cytometric analysis of a mouse strain known to express the I-A<sup>b</sup>/MHC Class II:Ea peptide complex. 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  $\mu$ L. 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  $\mu$ m post-manufacturing filtered.

## Product Images For Ea52-68 peptide bound to I-Ab Monoclonal Antibody (eBioY-Ae (YAe, Y-Ae)), Biotin, eBioscience™



### Ea52-68 peptide bound to I-Ab Antibody (13-5741-82) in Flow

Staining of peripheral blood from a C57BL/6 mouse (left) or a mouse strain known to express the E alpha 52-68 peptide:I-A (b) complex (right) with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.25  $\mu$ g of Anti-Mouse E alpha 52-68 peptide bound to I-Ab Biotin followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

## 11 References

### Flow Cytometry (11)

#### Nature communications

### Myeloid apolipoprotein E controls dendritic cell antigen presentation and T cell activation.

Authors: Bonacina F, Coe D, Wang G, Longhi MP, Baragetti A, Moregola A, Garlaschelli K, Uboldi P, Pellegatta F, Grigore L, Da Dalt L, Annoni A, Gregori S, Xiao Q, Caruso D, Mitro N, Catapano AL, Marelli-Berg FM, Norata GD

#### Species

Mouse  
Not Applicable

#### Dilution

Not Cited  
Not Cited

#### Year

2018

#### The EMBO journal

### The WD40 domain of ATG16L1 is required for its non-canonical role in lipidation of LC3 at single membranes.

"13-5741 was used in Flow cytometry/Cell sorting to demonstrate activation of non-canonical autophagy dependent on the WD40 CTD during influenza A virus infection."

Authors: Fletcher K, Ulferts R, Jacquin E, Veith T, Gammoh N, Arasteh JM, Mayer U, Carding SR, Wileman T, Beale R, Florey O

#### Species

Mouse

#### Dilution

Not Cited

#### Year

2018

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

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