

CD43 Monoclonal Antibody (eBioR2/60), Biotin, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgM
Recommended Isotype Control	Rat IgM Isotype Control (eBRM), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioR2/60
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466439

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	16 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

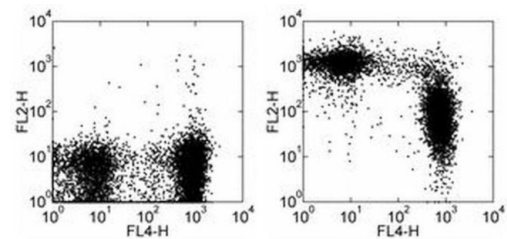
Description: The eBioR2/60 monoclonal antibody reacts with mouse CD43, also known as leukosialin and sialophorin. CD43 has glycoforms of approximately 115 and 130 kDa, and is expressed by an early B cell subset in BM, thymocytes and mature T cells, NK cells, myeloid lineage cells and platelets. CD43 is reported to bind to CD54 and play a role in adhesion and B cell survival.

While the S7 and 1B11 monoclonal antibody clones detect only certain isoforms of CD43, data suggests that R2/60 detects the expression of both isoforms. It has been demonstrated that R2/60 stains the majority of CD4+ and CD8+ splenocytes, as well as a significant population of CD19+ splenocytes. However, the clones S7 and 1B11 stain only CD4+ and CD8+, or CD19+ splenocytes, respectively. This suggests that S7 and 1B11 recognize distinct epitopes which are differentially expressed by splenic B and T cells, whereas R2/60 recognizes an epitope shared by both isoforms of CD43.

Applications Reported: This eBioR2/60 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBioR2/60 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.

Filtration: 0.2 µm post-manufacturing filtered.



CD43 Antibody (13-0431-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.25 µg of Rat IgM kappa Isotype Control Biotin (Product # 13-4341-81) (left) or 0.25 µg of Anti-Mouse CD43 Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

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17 References

Flow Cytometry (16)

Cell reports

The onset of circulation triggers a metabolic switch required for endothelial to hematopoietic transition.

"13-0431-82 was used in Immunocytochemistry-immunofluorescence to investigate how and when the onset of circulation affects Hematopoietic stem cells emergence."

Authors: Azzoni E,Frontera V,Anselmi G,Rode C,James C,Deltcheva EM,Demian AS,Brown J,Barone C,Patelli A, Harman JR,Nicholls M,Conway SJ,Morrissey E,Jacobsen SEW,Sparrow DB,Harris AL,Enver T,de Bruijn MFTR

Year
2021

Species
Mouse

Immunity

Plasmacytoid Dendritic Cells and Type I Interferon Promote Extrafollicular B Cell Responses to Extracellular Self-DNA.

"13-0431-82 was used in Flow Cytometry to establish extrafollicular B cell differentiation into short-lived AFCs as a key mechanism of anti-DNA autoreactivity and reveal a major contribution of pDCs, endosomal Toll-like receptors (TLRs), and IFN-I to this pathway."

Authors: Soni C,Perez OA,Voss WN,Pucella JN,Serpas L,Mehl J,Ching KL,Goike J,Georgiou G,Ippolito GC,Sisirak V, Reizis B

Year
2020

Species
Mouse

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

Miscellaneous PubMed (1)

The Journal of experimental medicine

TLR4 signals in B lymphocytes are transduced via the B cell antigen receptor and SYK.

"13043182 was used in flow cytometry to show that TLR4 signals through the BCR leading to activation of SYK, ERK, and AKT as well as through MYD88 leading to activation of NFkappaB"

Authors: Schweighoffer E,Nys J,Vanes L,Smithers N,Tybulewicz VLJ

Year
2017

Species
Mouse

More applications with references on thermofisher.com

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