CD44 Monoclonal Antibody (IM7), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Dog, Fruit fly, Non-human primate, Mouse, Human
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	APC
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_469390

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	158 Publications
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

Description: The IM7 monoclonal antibody reacts with all isoforms of mouse CD44 (Pgp-1). CD44 is expressed by hematopoietic and non-hematopoietic cells. Bone marrow myeloid cells and memory T cells highly express this antigen and peripheral B and T cells can upregulate the expression of CD44. CD44 functions as an adhesion molecule through its binding to hyaluronate, an extracellular matrix component.

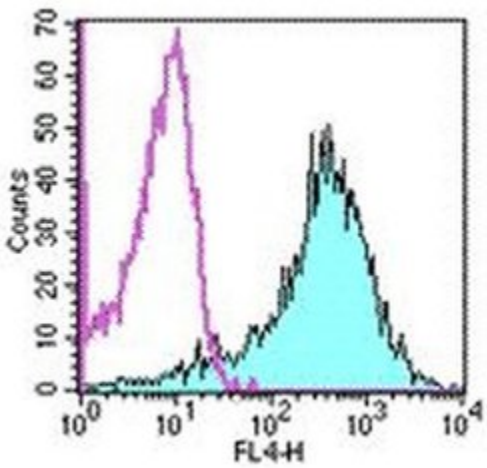
Applications Reported: The IM7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The IM7 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocytes. This can be used at less than or equal to 0.06 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.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD44 Monoclonal Antibody (IM7), APC, eBioscience™



CD44 Antibody (17-0441-82) in Flow
Staining of C57BL/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.03 µg of Anti-Human/Mouse CD44 APC (filled histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

161 References

Flow Cytometry (158)

Frontiers in immunology

The Transcription Factor NFATc1 Supports the Rejection of Heterotopic Heart Allografts.

"17-0441 was used in Flow cytometry/Cell sorting to show that the activity of nuclear factors of activated T cells-c1 supports the acute rejection of heterotopic heart allografts."

Authors: Baur J,Otto C,Steger U,Klein-Hessling S,Muhammad K,Pusch T,Murti K,Wismer R,Germer CT,Klein I,Müller N, Serfling E,Avots A

Species
Mouse

Dilution
Not Cited

Year
2019

Stem cells (Dayton, Ohio)

Comprehensive Cell Surface Antigen Analysis Identifies Transferrin Receptor Protein-1 (CD71) as a Negative Selection Marker for Human Neuronal Cells.

Authors: Menon V,Thomas R,Elgueta C,Horl M,Osborn T,Hallett PJ,Bartos M,Isacson O,Pruszak J

Species
Human

Dilution
4 µg/mL

Year
2019

View more Flow references on thermofisher.com

Miscellaneous PubMed (1)

Nature communications

Itk is required for Th9 differentiation via TCR-mediated induction of IL-2 and IRF4.

"17-0441 was used in Magnetic cell separation to investigate the role of IL-9 in allergic asthma and autoimmunity, showing that Itk is required for Th9 differentiation via TCR-mediated induction of IL-2 and IRF4."

Authors: Gomez-Rodriguez J,Meylan F,Handon R,Hayes ET,Anderson SM,Kirby MR,Siegel RM,Schwartzberg PL

Species
Mouse

Dilution
Not Cited

Year
2016

Immunocytochemistry (1)

Stem cell reports

Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic Fates.

"17-0441 was used in Immunofluorescence to suggest that equine induced pluripotent stem cells (iPSCs) can differentiate toward muscle and cartilage, and differentiation is skewed towards the source cell lineage."

Authors: Quattrocelli M,Giacomazzi G,Broeckx SY,Ceelen L,Bolca S,Spaas JH,Sampaolesi M

Species
Mouse

Dilution
1:200

Year
2016

More applications with references on thermofisher.com

IF (1)