

CD44 Monoclonal Antibody (IM7), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Dog, Fruit fly, Non-human primate, Human, Mouse
Host/Isotype	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
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.06 µg/test	200 Publications
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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

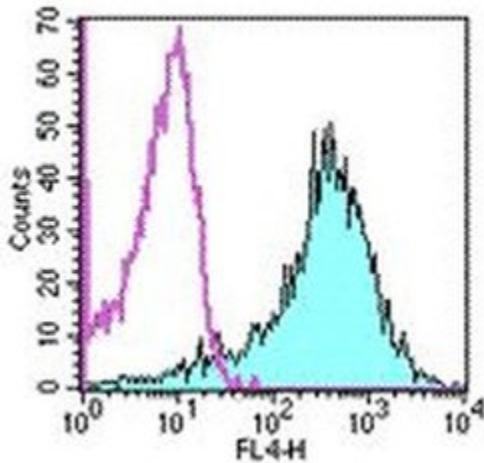
Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

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.



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203 References

Immunocytochemistry (2)

PloS one

Graphene-based 2D constructs for enhanced fibroblast support.

"17-0441 was used in Immunocytochemistry-immunofluorescence to study pristine graphene and two of its oxygen-functionalised derivatives-high and low-oxygen graphene films-as potential substrates for skin cell proliferation and differentiation."

Authors: Safina I, Bourdo SE, Algazali KM, Kannarpady G, Watanabe F, Vang KB, Biris AS

Species
Human

Dilution
Not Cited

Year
2020

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

Flow Cytometry (200)

Stem cells international

Therapeutic Effects of Human Urine-Derived Stem Cells in a Rat Model of Cisplatin-Induced Acute Kidney Injury In Vivo and In Vitro.

"Published figure using CD44 monoclonal antibody (Product # 17-0441-82) in Flow Cytometry"

Authors: Sun B, Luo X, Yang C, Liu P, Yang Y, Dong X, Yang Z, Xu J, Zhang Y, Li L

Species
Not Applicable

Dilution
Not Cited

Year
2021

Near-infrared photoimmunotherapy targeting human-EGFR in a mouse tumor model simulating current and future clinical trials.

"Published figure using CD44 monoclonal antibody (Product # 17-0441-82) in Flow Cytometry"

Authors: Okada R, Furusawa A, Vermeer DW, Inagaki F, Wakiyama H, Kato T, Nagaya T, Choyke PL, Spanos WC, Allen CT, Kobayashi H

Species
Not Applicable

Dilution
Not Cited

Year
2021

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

More applications with references on thermofisher.com

Misc (1)

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