CD44 Monoclonal Antibody (IM7), APC, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Human, Mouse
Published Species	Dog, Fruit fly, Non-human primate, Bacteria, Mouse, Human
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
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 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_469389

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.06 µg/test	306 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.

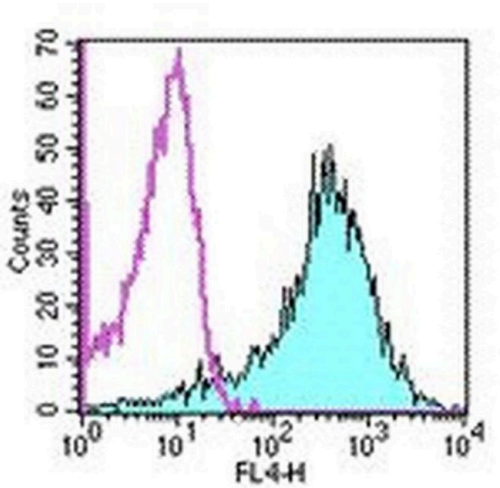
Applications Reported: The IM7 antibody has been reported for use in flow cytometric analysis.

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 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 (17-0441-81) 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.cn

312 References

Immunohistochemistry (Frozen) (1)

Cell

A human fetal lung cell atlas uncovers proximal-distal gradients of differentiation and key regulators of epithelial fates.

"17-0441-82 was used in Immunohistochemistry (Frozen) to identify developmental-specific secretory progenitors and a subtype of neuroendocrine cell related to human small cell lung cancer."

Authors: He P,Lim K,Sun D,Pett JP,Jeng Q,Polanski K,Dong Z,Bolt L,Richardson L,Mamanova L,Dabrowska M,Wilbrey-Clark A,Madissoon E,Tuong ZK,Dann E,Suo C,Goh I,Yoshida M,Nikoli MZ,Janes SM,He X,Barker RA,Teichmann SA, Marioni JC,Meyer KB,Rawlins EL

Year 2022

Species Human

Dilution 1:200

Immunocytochemistry (4)

American journal of cancer research

Improved platform for breast cancer circulating tumor cell enrichment and characterization with next-generation sequencing technology.

"17-0441-82 was used in Immunocytochemistry to develop a platform based on the large-scale isolation of CTCs by apheresis, allowing us to collect CTCs in large numbers, which were preserved live in liquid nitrogen for further characterization."

Authors: Mihalcioiu C,Li J,Badescu D,Camirand A,Kremer N,Bertos N,Omeroglu A,Sebag M,Di Battista J,Park M, Ragoussis J,Kremer R

Year 2023

Species Human

JBMR plus

Parathyroid Hormone-Related Protein Inhibition Blocks Triple-Negative Breast Cancer Expansion in Bone Through Epithelial to Mesenchymal Transition Reversal.

"17-0441-82 was used in Immunocytochemistry-immunoflourescence to conclude that PTHrP is a targetable EMT molecular driver and suggest that its pharmacological blockade can provide a potential therapeutic approach against established TNBC-derived skeletal lesions."

Authors: Li J,Camirand A,Zakikhani M,Sellin K,Guo Y,Luan X,Mihalcioiu C,Kremer R

Year 2022

Species Human

View more ICC/IF references on thermofisher.cn

Flow Cytometry (306)

Viruses

Mesenchymal Stem Cell-Derived Exosomes Attenuate Murine Cytomegalovirus-Infected Pneumonia via NF-B/NLRP3 Signaling Pathway.

Year
2024

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

Authors: Chen F,Chen Z,Wu HT,Chen XX,Zhan P,Wei ZY,Ouyang Z,Jiang X,Shen A,Luo MH,Liu Q,Zhou YP,Qin A

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

Misc (1)

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