

CD44 Monoclonal Antibody (IM7), PerCP-Cyanine5.5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Fruit fly, Non-human primate, Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PerCP-Cyanine5.5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	PerCP-Cyanine5.5
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_925746

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	132 Publications
In vitro Assay (IV)	-	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.

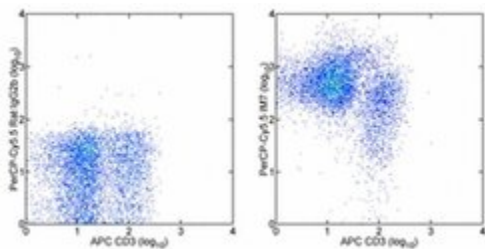
Applications Reported: This IM7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This IM7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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: 488 nm; **Emission:** 695 nm; **Laser:** Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD44 Monoclonal Antibody (IM7), PerCP-Cyanine5.5, eBioscience™



CD44 Antibody (45-0441-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e APC (Product # 17-0031-82) and 0.125 µg of Rat IgG2b K Isotype Control PerCP-Cyanine5-5 (Product # 45-4031-80) (left) or 0.125 µg of Anti-Human/Mouse CD44 PerCP-Cyanine5-5 (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

133 References

Flow Cytometry (132)

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 # 45-0441-82) 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

EBioMedicine

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

"Published figure using CD44 monoclonal antibody (Product # 45-0441-82) 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](#)

In vitro Assay (1)

Immunology

Macrophages transfer antigens to dendritic cells by releasing exosomes containing dead-cell-associated antigens partially through a ceramide-dependent pathway to enhance CD4(+) T-cell responses.

"45-0441 was used in In vitro assays to identify a novel pathway of cross-talk between macrophages and dendritic cells."

Authors: Xu Y,Liu Y,Yang C,Kang L,Wang M,Hu J,He H,Song W,Tang H

Species
Mouse

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

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