

CD44 Monoclonal Antibody (IM7), PE-Cyanine7, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Artificial Control, Fruit fly, Non-human primate, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	PE-Cyanine7
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_469623

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	119 Publications

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 bone marrow cells and splenocytes. This can be used at less than or equal to 0.125 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.

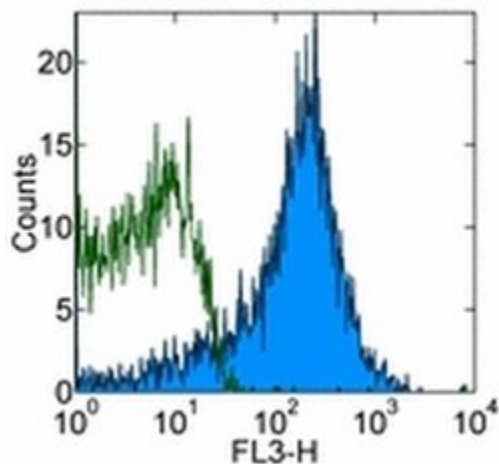
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD44 Monoclonal Antibody (IM7), PE-Cyanine7, eBioscience™



CD44 Antibody (25-0441-82) in Flow

Staining of C57BL/6 splenocytes with 0.06 µg of Rat IgG2b K Isotype Control PE-Cyanine7 (Product # 25-4031-82) (open histogram) or 0.06 µg of Anti-Human/Mouse CD44 PE-Cyanine7 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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

119 References

Flow Cytometry (119)

Oncology letters

Cryptotanshinone targets tumor-initiating cells through down-regulation of stemness genes expression.

"Published figure using CD44 monoclonal antibody (Product # 25-0441-82) in Flow Cytometry"

Authors: Zhang Y,Cabarcas SM,Zheng JI,Sun L,Mathews LA,Zhang X,Lin H,Farrar WL

Species
Not Applicable

Dilution
Not Cited

Year
2016

PloS one

GLI1 confers profound phenotypic changes upon LNCaP prostate cancer cells that include the acquisition of a hormone independent state.

"Published figure using CD44 monoclonal antibody (Product # 25-0441-82) in Flow Cytometry"

Authors: Nadendla SK,Hazan A,Ward M,Harper LJ,Moutasim K,Bianchi LS,Naase M,Ghali L,Thomas GJ,Prowse DM,Philpott MP,Neill GW

Species
Human

Dilution
Not Cited

Year
2011

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

More applications with references on thermofisher.com

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