

CD44 Monoclonal Antibody (IM7), PE-eFluor 610, 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), PE-eFluor 610, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | IM7 |
| Conjugate | PE-eFluor® 610 |
| 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_2574554 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | 1 µg/test | 85 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 splenocytes. This can be used at less than or equal to 1 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.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochrome.

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

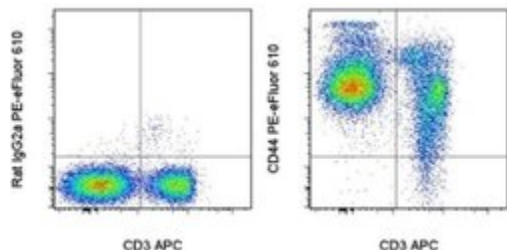
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD44 Monoclonal Antibody (IM7), PE-eFluor 610, eBioscience™



CD44 Antibody (61-0441-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Mouse CD3 eFluor® 450 (Product # 48-0032-82) and 0.5 µg of Rat IgG2a K Isotype Control PE-eFluor® 610 (Product # 61-4321-82) (left) or 0.5 µg of Anti-Human/Mouse CD44 PE-eFluor® 610 (right). Cells in the lymphocyte gate were used for analysis.

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

85 References

Flow Cytometry (85)

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 # 61-0441-82) 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 # 61-0441-82) 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

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