

CD44 Monoclonal Antibody (IM7), APC-eFluor 780, 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), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	APC-eFluor® 780
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_1272244

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	93 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 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem 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 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

93 References

Flow Cytometry (93)

Chinese medical journal

Role of Triggering Receptor Expressed on Myeloid Cell-1 Expression in Mammalian Target of Rapamycin Modulation of CD8⁺ T-cell Differentiation during the Immune Response to Invasive Pulmonary Aspergillosis.

"Published figure using CD44 monoclonal antibody (Product # 47-0441-82) in Flow Cytometry"

Authors: Cui N,Wang H,Su LX,Zhang JH,Long Y,Liu DW

Species
Not Applicable

Dilution
Not Cited

Year
2017

Oncology letters

Comparable roles of CD44v8-10 and CD44s in the development of bone metastases in a mouse model.

"Published figure using CD44 monoclonal antibody (Product # 47-0441-82) in Flow Cytometry"

Authors: Hiraga T,Nakamura H

Species
Human

Dilution
Not Cited

Year
2016

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

More applications with references on thermofisher.com

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