

CD44 Monoclonal Antibody (IM7), eFluor 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Pig, Fruit fly, Non-human primate, Mouse, Human
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	eFluor® 450
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_1272246

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	63 Publications
Immunofluorescence (IF)	-		6 Publications
Immunohistochemistry (IHC)	-		2 Publications
Fluorescence Resonance Energy Transfer (FRET)	-		1 Publication
Immunocytochemistry (ICC)	-		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.

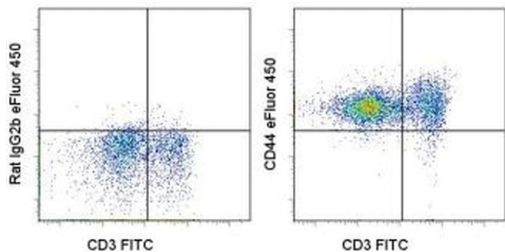
Applications Tested: This IM7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD44 Monoclonal Antibody (IM7), eFluor 450, eBioscience™



CD44 Antibody (48-0441-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.125 µg of Rat IgG2b kappa Isotype Control eFluor® 450 (Product # 48-4031-82) (left) or 0.125 µg of Anti-Human/Mouse CD44 eFluor® 450 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

Flow Cytometry (63)

Nature communications

Modifying the cancer-immune set point using vaccinia virus expressing re-designed interleukin-2.

"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Flow Cytometry"

Authors: Liu Z,Ge Y,Wang H,Ma C,Feist M,Ju S,Guo ZS,Bartlett DL

Species
Not Applicable

Dilution
Not Cited

Year
2018

eLife

An alternative splicing switch in FLNB promotes the mesenchymal cell state in human breast cancer.

"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Flow Cytometry"

Authors: Li J,Choi PS,Chaffer CL,Labella K,Hwang JH,Giacomelli AO,Kim JW,Ilic N,Doench JG,Ly SH,Dai C,Hagel K,Hong AL,Gjoerup O,Goel S,Ge JY,Root DE,Zhao JJ,Brooks AN,Weinberg RA,Hahn WC

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunofluorescence (6)

Molecular medicine reports

Breast cancer stem cells expressing different stem cell markers exhibit distinct biological characteristics.

"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Immunofluorescence"

Authors: Shao J,Fan W,Ma B,Wu Y

Species
Not Applicable

Dilution
Not Cited

Year
2016

PloS one

Multi-lineage differentiation of human umbilical cord Wharton's Jelly Mesenchymal Stromal Cells mediates changes in the expression profile of stemness markers.

"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Flow Cytometry"

Authors: Ali H,Al-Yatama MK,Abu-Farha M,Behbehani K,Al Madhoun A

Species
Human
Not Applicable

Dilution
Not Cited
Not Cited

Year
2016

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More applications with references on thermofisher.com

IHC (2)

FRET (1)

ICC (1)

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