

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/Isotype	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	Publications
Immunohistochemistry (IHC)	-	7 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.25 µg/test	113 Publications
Fluorescence Resonance Energy Transfer (FRET)	-	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.

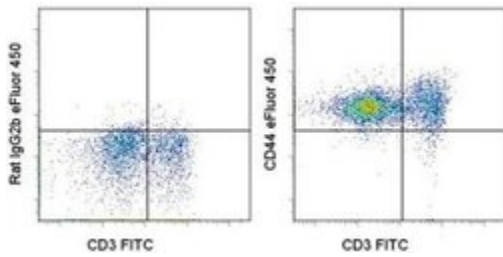
Applications Tested: This IM7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined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

Immunohistochemistry (7)

Nature communications

The white matter is a pro-differentiative niche for glioblastoma.

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

Authors: Brooks LJ, Clements MP, Burden JJ, Kocher D, Richards L, Devesa SC, Zaka L, Woodberry M, Ellis M, Jaunmuktane Z, Brandner S, Morrison G, Pollard SM, Dirks PB, Marguerat S, Parrinello S

Species
Not Applicable

Dilution
Not Cited

Year
2021

Stem cell reports

Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic Fates.

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

Authors: Quattrocelli M, Giacomazzi G, Broeckx SY, Ceelen L, Bolca S, Spaas JH, Sampaolesi M

Species
Not Applicable

Dilution
Not Cited

Year
2016

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

Immunocytochemistry (5)

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 Immunofluorescence"

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

Species
Human

Dilution
Not Cited

Year
2016

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

Flow (113)

FRET (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.