

# 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
Excitation/Emission Max	405/445 nm
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_1272246

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	15 Publications
Immunocytochemistry (ICC/IF)	-	13 Publications
Flow Cytometry (Flow)	0.25 µg/test	198 Publications
Neutralization (Neu)	-	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.

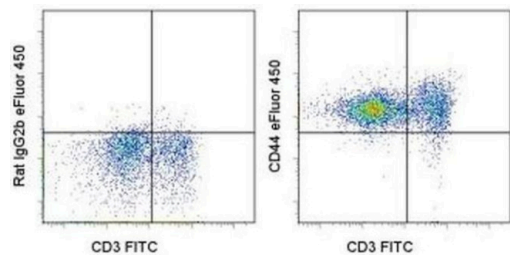
**Applications Tested:** This IM7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> 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.

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Immunohistochemistry (15)

<p>International journal of molecular sciences</p> <p><b>CXCR4, CXCR5 and CD44 May Be Involved in Homing of Lymphoma Cells into the Eye in a Patient Derived Xenograft Homing Mouse Model for Primary Vitreoretinal Lymphoma.</b></p> <p>"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Immunohistochemistry"</p> <p>Authors: Babst N,Isbell LK,Rommel F,Tura A,Ranjbar M,Grisanti S,Tschuch C,Schueler J,Doostkam S,Reinacher PC, Duyster J,Kakkassery V,von Bubnoff N</p>	<p>Year 2022</p>
<p>International journal of molecular sciences</p> <p><b>High-Contrast Stimulation Potentiates the Neurotrophic Properties of Müller Cells and Suppresses Their Pro-Inflammatory Phenotype.</b></p> <p>"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Immunohistochemistry"</p> <p>Authors: Zloh M,Kutilek P,Stofkova A</p>	<p>Year 2022</p>

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

Immunocytochemistry (13)

<p>iScience</p> <p><b>CD95/Fas protects triple negative breast cancer from anti-tumor activity of NK cells.</b></p> <p>"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Immunocytochemistry"</p> <p>Authors: Qadir AS,Guégan JP,Ginestier C,Chaibi A,Bessede A,Charafe-Jauffret E,Macario M,Lavoué V,Rouge TM,Law C,Vilker J,Wang H,Stroup E,Schipma MJ,Bridgeman B,Murmann AE,Ji Z,Legembre P,Peter ME</p>	<p>Year 2021</p>
<p>Cell reports</p> <p><b>c-FOS drives reversible basal to squamous cell carcinoma transition.</b></p> <p>"Published figure using CD44 monoclonal antibody (Product # 48-0441-82) in Immunocytochemistry"</p> <p>Authors: Kuonen F,Li NY,Haensel D,Patel T,Gaddam S,Yerly L,Rieger K,Aasi S,Oro AE</p>	<p>Year 2021</p>

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

More applications with references on thermofisher.cn

- Flow (198)
- Neu (1)

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