

CD44 Monoclonal Antibody (IM7), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2688087

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunocytochemistry (ICC/IF)	-	9 Publications
Flow Cytometry (Flow)	0.125 µg/test	90 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 may be used at less than or equal to 0.125 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

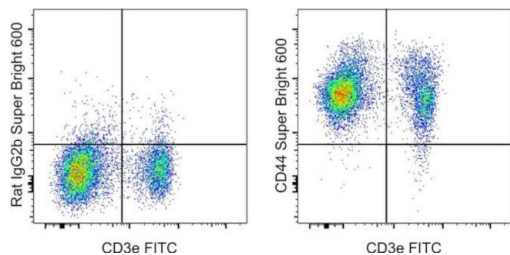
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD44 Monoclonal Antibody (IM7), Super Bright™ 600, eBioscience™



CD44 Antibody (63-0441-82) in Flow
BALB/c mouse splenocytes were stained with CD3e Monoclonal Antibody, APC (Product # 17-0031-82) and 0.06 µg of Rat IgG2b kappa Isotype Control, Super Bright 600 (Product # 63-4031-82) (left) or 0.06 µg of CD44 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (10)

<p>International journal of molecular sciences</p> <p>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.</p> <p>"Published figure using CD44 monoclonal antibody (Product # 63-0441-82) 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>High-Contrast Stimulation Potentiates the Neurotrophic Properties of Müller Cells and Suppresses Their Pro-Inflammatory Phenotype.</p> <p>"Published figure using CD44 monoclonal antibody (Product # 63-0441-82) in Immunohistochemistry"</p> <p>Authors: Zloh M,Kutilek P,Stofkova A</p>	<p>Year 2022</p>

View more IHC references on thermofisher.com

Immunocytochemistry (9)

<p>iScience</p> <p>CD95/Fas protects triple negative breast cancer from anti-tumor activity of NK cells.</p> <p>"Published figure using CD44 monoclonal antibody (Product # 63-0441-82) 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>c-FOS drives reversible basal to squamous cell carcinoma transition.</p> <p>"Published figure using CD44 monoclonal antibody (Product # 63-0441-82) 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>

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More applications with references on thermofisher.com

- Flow (90)
- Neu (1)

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