

CD44 Monoclonal Antibody (IM7), Super Bright™ 645, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Human, Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	Super Bright™ 645
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_2662581

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	1 µg/test	9 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 1.0 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

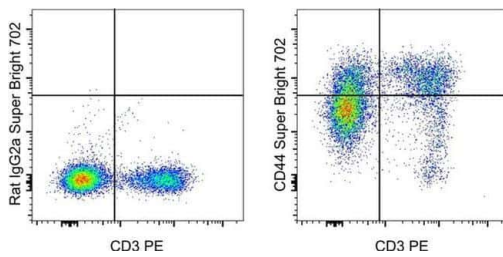
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L 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: 645 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™ 645, eBioscience™



CD44 Antibody (64-0441-80) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD3e FITC (Product # 11-0031-82) and 0.5 μ g of Rat IgG2b kappa Isotype Control Super Bright 645 (Product # 64-4031-82) (left) or 0.5 μ g of Anti-Human/Mouse CD44 Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

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

17 References

Immunohistochemistry (4)

NPJ Regenerative medicine

Differential activation of Ca²⁺ influx channels modulate stem cell potency, their proliferation/viability and tissue regeneration.

"Published figure using CD44 monoclonal antibody (Product # 64-0441-82) in Immunohistochemistry"

Authors: Ahamad N,Sun Y,Nascimento Da Conceicao V,Xavier Paul Ezhilan CRD,Natarajan M,Singh BB

Year
2021

Biology

Immuno-Electron and Confocal Laser Scanning Microscopy of the Glycocalyx.

"Published figure using CD44 monoclonal antibody (Product # 64-0441-82) in Immunohistochemistry"

Authors: Twamley SG,Stach A,Heilmann H,Söhl-Kielczynski B,Stangl V,Ludwig A,Münster-Wandowski A

Year
2021

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

Immunocytochemistry (3)

Cell reports

c-FOS drives reversible basal to squamous cell carcinoma transition.

"Published figure using CD44 monoclonal antibody (Product # 64-0441-82) in Immunocytochemistry"

Authors: Kuonen F,Li NY,Haensel D,Patel T,Gaddam S,Yerly L,Rieger K,Aasi S,Oro AE

Year
2021

Biology

Immuno-Electron and Confocal Laser Scanning Microscopy of the Glycocalyx.

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Authors: Twamley SG,Stach A,Heilmann H,Söhl-Kielczynski B,Stangl V,Ludwig A,Münster-Wandowski A

Year
2021

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More applications with references on thermofisher.com

[Flow \(9\)](#) [Neu \(1\)](#)

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