

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

Product Details	
Size	100 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_2662590

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	9 Publications

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.

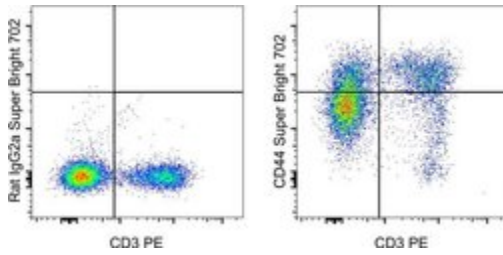
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 (64-0441-82) 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)

Immunohistochemistry (2)

Nature communications

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

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

Oncotarget

ST6GALNAC1 plays important roles in enhancing cancer stem phenotypes of colorectal cancer via the Akt pathway.

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

Authors: Ogawa T, Hirohashi Y, Murai A, Nishidate T, Okita K, Wang L, Ikehara Y, Satoyoshi T, Usui A, Kubo T, Nakastugawa M, Kanaseki T, Tsukahara T, Kutomi G, Furuhashi T, Hirata K, Sato N, Mizuguchi T, Takemasa I, Torigoe T

Species
Not Applicable

Dilution
Not Cited

Year
2017

Flow Cytometry (9)

EBioMedicine

Near-infrared photoimmunotherapy targeting human-EGFR in a mouse tumor model simulating current and future clinical trials.

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

Authors: Okada R, Furusawa A, Vermeer DW, Inagaki F, Wakiyama H, Kato T, Nagaya T, Choyke PL, Spanos WC, Allen CT, Kobayashi H

Species
Not Applicable

Dilution
Not Cited

Year
2021

International journal of molecular sciences

Therapeutic Potential of Mesenchymal Stem Cells in a Pre-Clinical Model of Diabetic Kidney Disease and Obesity.

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

Authors: Sávio-Silva C, Soinski-Sousa PE, Simplicio-Filho A, Bastos RMC, Beyerstedt S, Rangel ÉB

Species
Not Applicable

Dilution
Not Cited

Year
2021

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More applications with references on thermofisher.com

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