

# CD44 Monoclonal Antibody (IM7), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Fruit fly, Non-human primate, Human, Mouse
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466442

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.125 µg/test	56 Publications
Functional Assay (FN)	-		1 Publication
Immunofluorescence (IF)	-		7 Publications
Western Blot (WB)	-		5 Publications
Immunohistochemistry (IHC)	-		3 Publications
Miscellaneous PubMed (MISC)	-		1 Publication
Fluorescence Resonance Energy Transfer (FRET)	-		1 Publication
Immunocytochemistry (ICC)	-		1 Publication

## Product Specific Information

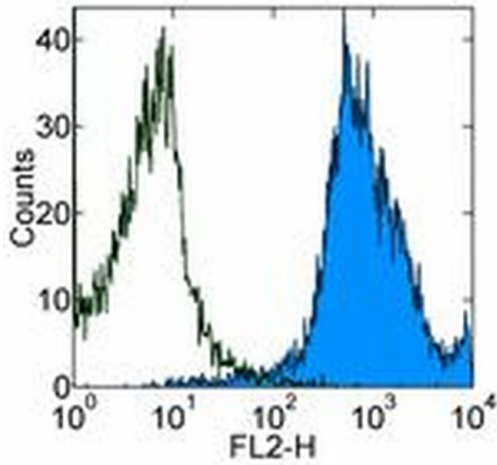
Description: The IM7 monoclonal antibody reacts with all isoforms of mouse CD44 (Pgp-1). CD44 is expressed by hematopoietic and non-hematopoietic cells. Bone marrow myeloid cells and memory T cells highly express this antigen and peripheral B and T cells can upregulate the expression of CD44. CD44 functions as an adhesion molecule through its binding to hyaluronate, an extracellular matrix component.

Applications Reported: The IM7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The IM7 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocytes. This can 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 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.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD44 Monoclonal Antibody (IM7), Biotin, eBioscience™



### CD44 Antibody (13-0441-82) in Flow

Staining of C57BL/6 splenocytes with 0.06 µg of Rat IgG2b kappa Isotype Control Biotin (Product # 13-4031-82) (open histogram) or 0.06 µg of Anti-Human/Mouse CD44 Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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## Flow Cytometry (56)

### Nature communications

#### Modifying the cancer-immune set point using vaccinia virus expressing re-designed interleukin-2.

"Published figure using CD44 monoclonal antibody (Product # 13-0441-82) in Flow Cytometry"

Authors: Liu Z,Ge Y,Wang H,Ma C,Feist M,Ju S,Guo ZS,Bartlett DL

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

### eLife

#### An alternative splicing switch in FLNB promotes the mesenchymal cell state in human breast cancer.

"Published figure using CD44 monoclonal antibody (Product # 13-0441-82) in Flow Cytometry"

Authors: Li J,Choi PS,Chaffer CL,Labella K,Hwang JH,Giacomelli AO,Kim JW,Ilic N,Doench JG,Ly SH,Dai C,Hagel K,Hong AL,Gjoerup O,Goel S,Ge JY,Root DE,Zhao JJ,Brooks AN,Weinberg RA,Hahn WC

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

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

## Functional Assay (1)

### Endocrine-related cancer

#### Androgen receptor in cancer-associated fibroblasts influences stemness in cancer cells.

"13-0441 was used in a Functional assay to explore the function of androgen receptor in prostate cancer-associated fibroblasts relative to growth and stem cell-associated characteristics."

Authors: Liao CP,Chen LY,Luethy A,Kim Y,Kani K,MacLeod AR,Gross ME

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2017

## Immunofluorescence (7)

### Molecular medicine reports

#### Breast cancer stem cells expressing different stem cell markers exhibit distinct biological characteristics.

"Published figure using CD44 monoclonal antibody (Product # 13-0441-82) in Immunofluorescence"

Authors: Shao J,Fan W,Ma B,Wu Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

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## More applications with references on thermofisher.com

WB (5)

IHC (3)

MISC (1)

FRET (1)

ICC (1)

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