

CD44 Monoclonal Antibody (IM7), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Fruit fly, Non-human primate, Human, Mouse
Host/Isotope	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_467246

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	186 Publications
Functional Assay (FN)	Assay-Dependent	3 Publications
Immunohistochemistry (IHC)	Assay-Dependent	5 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Western Blot (WB)	Assay-Dependent	5 Publications
ELISA (ELISA)	-	1 Publication
Fluorescence Resonance Energy Transfer (FRET)	-	1 Publication
Immunocytochemistry (ICC)	-	1 Publication
Immunofluorescence (IF)	-	9 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Miscellaneous PubMed (Misc)	-	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, immunoprecipitation,

immunohistochemical staining and immunoblotting (non-reducing conditions). It has also been reported in complement-dependent cytotoxicity. (Please use Functional Grade purified IM7, cat. 16-0441, in functional assays.)

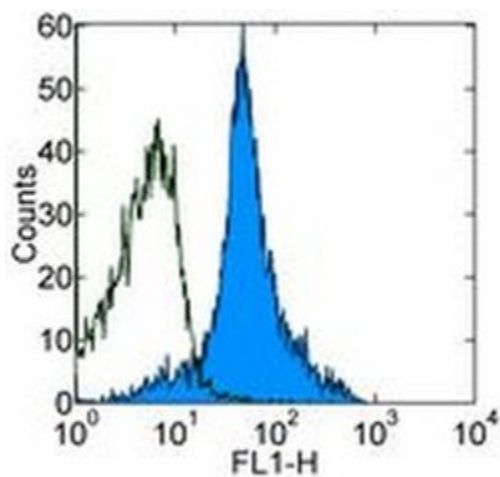
Applications Tested: The IM7 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocytes. This can be used at less than or equal to 0.125 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD44 Antibody (14-0441-82) in Flow

Staining of C57Bl/6 splenocytes with 0.06 µg of Rat IgG2b Isotype Control Purified (Product # 14-4031-82) (open histogram) or 0.06 µg of Anti-Human/Mouse CD44 Purified (filled histogram) followed by Anti-Rat IgG FITC (Product # 11-4811-85). Total viable cells were used for analysis.

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

Flow Cytometry (186)

Genome research

Clonal copy-number mosaicism in autoreactive T lymphocytes in diabetic NOD mice.

"Published figure using CD44 monoclonal antibody (Product # 14-0441-82) in Flow Cytometry"

Authors: Alriyami M, Marchand L, Li Q, Du X, Olivier M, Polychronakos C

Species
Not Applicable

Dilution
Not Cited

Year
2019

International journal of oncology

Anisomycin inhibits angiogenesis in ovarian cancer by attenuating the molecular sponge effect of the lncRNAMeg3/miR421/PDGFRA axis.

"Published figure using CD44 monoclonal antibody (Product # 14-0441-82) in Flow Cytometry"

Authors: Ye W, Ni Z, Yicheng S, Pan H, Huang Y, Xiong Y, Liu T

Species
Not Applicable

Dilution
Not Cited

Year
2019

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

Functional Assay (3)

OncoTargets and therapy

A correlation study of the expression of HA-CD44st and HER-2 in breast cancer.

"14-0441 was used in Functional assays to investigate the effect of hyaluronic acid-CD44st on the invasive ability of human breast cancer MCF-7 cells."

Authors: Ying Zhi L, Xu Z, Ning L, Jia Jin L, Hai Cui Y, Hong HG, Fang XJ

Species
Human

Dilution
Not Cited

Year
2019

Nature immunology

A septin requirement differentiates autonomous and contact-facilitated T cell proliferation.

"14-0441 was used in Functional assays to characterise T cells lacking the septin cytoskeleton."

Authors: Mujal AM, Gilden JK, Gérard A, Kinoshita M, Krummel MF

Species
Mouse

Dilution
Not Cited

Year
2016

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

More applications with references on thermofisher.com

IF (9) WB (5) IHC (P) (1) Misc (1) ELISA (1) IHC (5) FRET (1) ICC (1)

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