

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

## Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Dog, Fruit fly, Non-human primate, Bacteria, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469390

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.06 µg/test	282 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

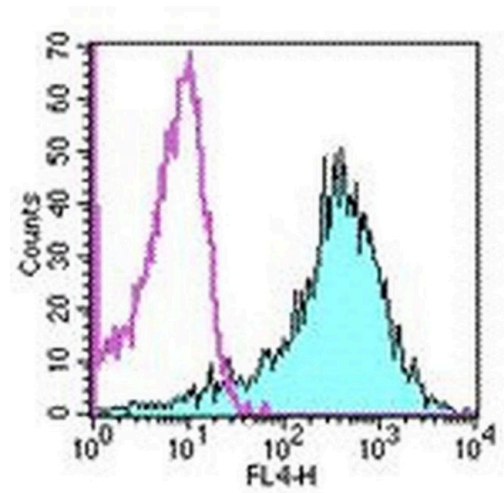
**Description:** The IM7 monoclonal antibody reacts with all isoforms of mouse CD44 (Pgp-1). CD44 is expressed by hematopoietic and non-hematopoietic cells. Bone marrow myeloid cells and memory T cells highly express this antigen and peripheral B and T cells can upregulate the expression of CD44. CD44 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.

**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 0.06 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.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.



**CD44 Antibody (17-0441-82) in Flow**

Staining of C57BL/6 splenocytes with staining buffer (autofluorescence) (open histogram) or 0.03 µg of Anti-Human/Mouse CD44 APC (filled histogram). Total viable cells were used for analysis.

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Immunocytochemistry (3)

<p><b>JBMR plus</b></p> <p><b>Parathyroid Hormone-Related Protein Inhibition Blocks Triple-Negative Breast Cancer Expansion in Bone Through Epithelial to Mesenchymal Transition Reversal.</b></p> <p>"17-0441-82 was used in Immunocytochemistry-immunofluorescence to conclude that PTHrP is a targetable EMT molecular driver and suggest that its pharmacological blockade can provide a potential therapeutic approach against established TNBC-derived skeletal lesions."</p> <p>Authors: Li J,Camirand A,Zakikhani M,Sellin K,Guo Y,Luan X,Mihalcioiu C,Kremer R</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Human</p>
<p><b>PloS one</b></p> <p><b>Graphene-based 2D constructs for enhanced fibroblast support.</b></p> <p>"Published figure using CD44 monoclonal antibody (Product # 17-0441-82) in Immunocytochemistry"</p> <p>Authors: Safina I,Bourdo SE,Algazali KM,Kannarpady G,Watanabe F,Vang KB,Biris AS</p>	<p><b>Year</b> 2020</p> <p><b>Species</b> Human</p>

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Flow Cytometry (282)

<p><b>Bioactive materials</b></p> <p><b>A platinum@polymer-catechol nanobroker enables radio-immunotherapy for crippling melanoma tumorigenesis, angiogenesis, and radioresistance.</b></p> <p>"Published figure using CD44 monoclonal antibody (Product # 17-0441-82) in Flow Cytometry"</p> <p>Authors: Li W,Yan J,Tian H,Li B,Wang G,Sang W,Zhang Z,Zhang X,Dai Y</p>	<p><b>Year</b> 2023</p> <p><b>Species</b> Mouse</p>
<p><b>Nature immunology</b></p> <p><b>IFN binding to extracellular matrix prevents fatal systemic toxicity.</b></p> <p>"17-0441-82 was used in Flow cytometry/Cell sorting to conclude that local retention of IFN is a pivotal mechanism to protect the organism from systemic toxicity during prolonged immune stimulation."</p> <p>Authors: Kemna J,Gout E,Daniau L,Lao J,Weiert K,Ammann S,Khn R,Richter M,Molenda C,Sporbert A,Zocholl D,Klopfleisch R,Lortat-Jacob H,Aichele P,Kammertoens T,Blankenstein T</p>	<p><b>Year</b> 2023</p> <p><b>Species</b> Mouse</p>

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Misc (1)

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