

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/Isotype	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
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466442

Applications	Tested Dilution	Publications
Western Blot (WB)	-	4 Publications
Immunohistochemistry (IHC)	-	17 Publications
Immunocytochemistry (ICC/IF)	-	13 Publications
Flow Cytometry (Flow)	0.125 µg/test	168 Publications
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

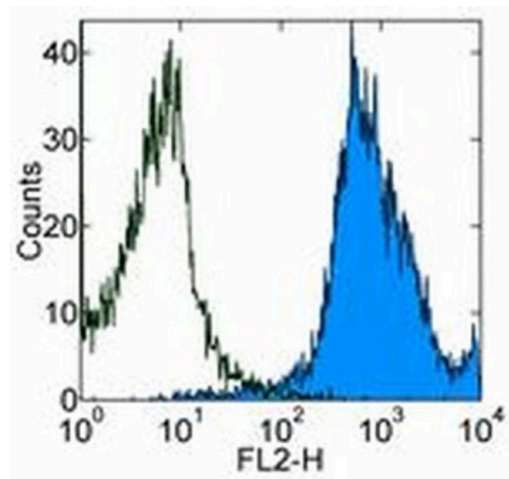
Description: The IM7 monoclonal antibody reacts with all isoforms of mouse CD44 (Pgp-1). CD44 is expressed by hematopoietic and non-hematopoietic cells. Bone marrow myeloid cells and memory T cells highly express this antigen and peripheral B and T cells can upregulate the expression of CD44. CD44 functions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

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.

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.

View more figures on thermofisher.com

205 References

Western Blot (4)

<p>PloS one</p> <p>Multi-lineage differentiation of human umbilical cord Wharton's Jelly Mesenchymal Stromal Cells mediates changes in the expression profile of stemness markers.</p> <p>"Published figure using CD44 monoclonal antibody (Product # 13-0441-82) in Immunofluorescence"</p> <p>Authors: Ali H,Al-Yatama MK,Abu-Farha M,Behbehani K,Al Madhoun A</p>	<p>Year 2016</p>
<p>Nature</p> <p>Oncogene ablation-resistant pancreatic cancer cells depend on mitochondrial function.</p> <p>"13-0441 was used in Western Blotting to present a therapeutic strategy for managing pancreatic cancer by targeting the KRAS pathway and mitochondrial respiration."</p> <p>Authors: Viale A,Pettazzoni P,Lyssiotis CA,Ying H,Sánchez N,Marchesini M,Carugo A,Green T,Seth S,Giuliani V,Kost-Alimova M,Muller F,Colla S,Nezi L,Genovese G,Deem AK,Kapoor A,Yao W,Brunetto E,Kang Y,Yuan M,Asara JM,Wang YA,Heffernan TP,Kimmelman AC,Wang H,Fleming JB,Cantley LC,DePinho RA,Draetta GF</p>	<p>Year 2014</p> <p>Species Mouse</p>

View more WB references on thermofisher.com

Immunohistochemistry (17)

<p>International journal of molecular sciences</p> <p>CXCR4, CXCR5 and CD44 May Be Involved in Homing of Lymphoma Cells into the Eye in a Patient Derived Xenograft Homing Mouse Model for Primary Vitreoretinal Lymphoma.</p> <p>"Published figure using CD44 monoclonal antibody (Product # 13-0441-82) in Immunohistochemistry"</p> <p>Authors: Babst N,Isbell LK,Rommel F,Tura A,Ranjbar M,Grisanti S,Tschuch C,Schueler J,Doostkam S,Reinacher PC,Duyster J,Kakkassery V,von Bubnoff N</p>	<p>Year 2022</p>
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------

High-Contrast Stimulation Potentiates the Neurotrophic Properties of Müller Cells and Suppresses Their Pro-Inflammatory Phenotype.

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

Authors: Zloh M,Kutilek P,Stofkova A

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

More applications with references on thermofisher.com

ICC/IF (13)

Flow (168)

Neu (1)

FN (1)

Misc (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.