

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

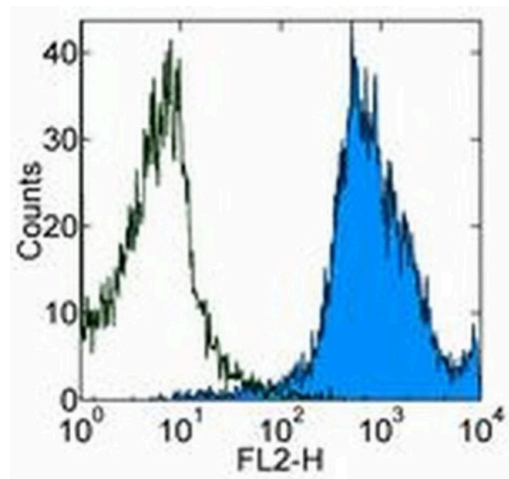
Description: The IM7 monoclonal antibody reacts with all isoforms of mouse CD44 (Pgp-1). CD44 is expressed by hematopoietic and non-hematopoietic cells. Bone marrow myeloid cells and memory T cells highly express this antigen and peripheral B and T cells can upregulate the expression of CD44. CD44 functions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

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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 Western Blot"</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,Colli 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>

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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>
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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

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- ICC/IF (13)
- Flow (168)
- Neu (1)
- FN (1)
- Misc (1)

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