

CD44 Monoclonal Antibody (IM7), Alexa Fluor 700, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Fruit fly, Non-human primate, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	IM7
Conjugate	Alexa Fluor® 700
Form	Liquid
Concentration	0.2 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_494011

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	8 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.06 µg/test	116 Publications
Fluorescence Resonance Energy Transfer (FRET)	-	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: This IM7 antibody has been reported for use in flow cytometric analysis.

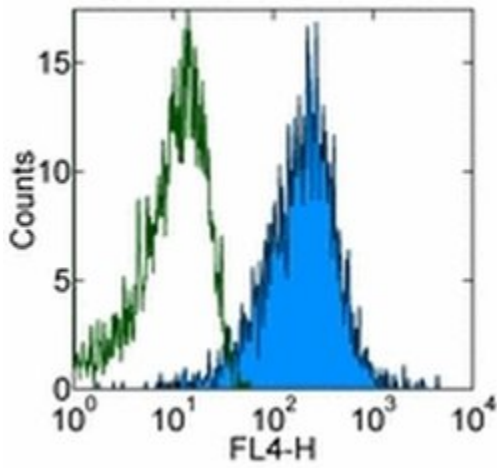
Applications Tested: This IM7 antibody has been tested by flow cytometric analysis of mouse bone marrow cells and splenocyte suspensions. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD44 Monoclonal Antibody (IM7), Alexa Fluor 700, eBioscience™



CD44 Antibody (56-0441-82) in Flow

Staining of BALB/c splenocytes with 0.03 µg of Rat IgG2b K Isotype Control Alexa Fluor® 700 (Product # 56-4031-80) (open histogram) or 0.03 µg of Anti-Human /Mouse CD44 Alexa Fluor® 700 (filled histogram). Cells in the lymphocyte gate were used for analysis.

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

Immunohistochemistry (8)

Nature communications

The white matter is a pro-differentiative niche for glioblastoma.

"Published figure using CD44 monoclonal antibody (Product # 56-0441-82) in Immunohistochemistry"

Authors: Brooks LJ, Clements MP, Burden JJ, Kocher D, Richards L, Devesa SC, Zaka L, Woodberry M, Ellis M, Jaunmuktane Z, Brandner S, Morrison G, Pollard SM, Dirks PB, Marguerat S, Parrinello S

Species
Not Applicable

Dilution
Not Cited

Year
2021

Stem cell reports

Equine-Induced Pluripotent Stem Cells Retain Lineage Commitment Toward Myogenic and Chondrogenic Fates.

"Published figure using CD44 monoclonal antibody (Product # 56-0441-82) in Immunofluorescence"

Authors: Quattrocelli M, Giacomazzi G, Broeckx SY, Ceelen L, Bolca S, Spaas JH, Sampaolesi M

Species
Not Applicable

Dilution
Not Cited

Year
2016

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

Immunocytochemistry (7)

Cell biology international

Explant culture: A relevant tool for the study of telocytes.

"Published figure using CD44 monoclonal antibody (Product # 56-0441-82) in Immunocytochemistry"

Authors: Sanches BDA, Maldarine JDS, Tamarindo GH, Da Silva ADT, Lima MLD, Rahal P, Góes RM, Taboga SR, Carvalho HF

Species
Not Applicable

Dilution
Not Cited

Year
2020

Frontiers in bioengineering and biotechnology

In vitro Characteristics of Heterogeneous Equine Hoof Progenitor Cell Isolates.

"Published figure using CD44 monoclonal antibody (Product # 56-0441-82) in Flow Cytometry"

Authors: Yang Q, Pinto VMR, Duan W, Paxton EE, Dessauer JH, Ryan W, Lopez MJ

Species
Not Applicable

Dilution
Not Cited

Year
2020

[View more ICC/IF references on thermofisher.com](#)

More applications with references on thermofisher.com

Flow (116)

FRET (1)

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