

CD51 (Integrin alpha V) Monoclonal Antibody (RMV-7), Biotin, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMV-7
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466477

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	6 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

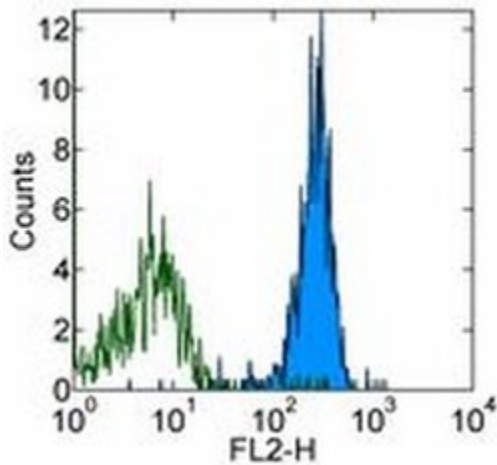
Description: The RMV-7 monoclonal antibody reacts with the mouse CD51 molecule, the integrin alpha v chain. This approximately 120 kDa surface molecule non-covalently associates with the beta subunits of the integrin family including beta3 (CD61), beta1 (CD29), beta5 and beta6 to form receptors for extracellular matrix components. Heterodimers of CD51/CD61 are expressed by platelets, T cells and granulocytes and mediate adhesion to fibrinogen, fibronectin, vitronectin and thrombospondin.

Applications Reported: The RMV-7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The RMV-7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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 CD51 (Integrin alpha V) Monoclonal Antibody (RMV-7), Biotin, eBioscience™



CD51 (Integrin alpha V) Antibody (13-0512-82) in Flow

Staining of C57BL/6 bone marrow cells with 0.5 µg of Rat IgG1 kappa Isotype Control Biotin (Product # 13-4301-82) (open histogram) or 0.5 µg of Anti-Mouse CD51 (Integrin alpha V) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the large scatter population were used for analysis.

[View more figures on thermofisher.com](#)

9 References

Immunohistochemistry (2)

JCI insight

Soluble Thy-1 reverses lung fibrosis via its integrin-binding motif.

"Published figure using CD51 (Integrin alpha V) monoclonal antibody (Product # 13-0512-82) in Immunohistochemistry"

Authors: Tan C, Jiang M, Wong SS, Espinoza CR, Kim C, Li X, Connors E, Hagood JS

Species
Not Applicable

Dilution
Not Cited

Year
2019

Journal of ultrasound in medicine : official journal of the
American Institute of Ultrasound in Medicine

A triple-targeted ultrasound contrast agent provides improved localization to tumor vasculature.

"13-0512 was used in Conjugation experiments to evaluate multitargeted microbubbles used for tumoural sonography, comparing single-, dual-, and triple-targeted motifs."

Authors: Warram JM, Sorace AG, Saini R, Umphrey HR, Zinn KR, Hoyt K

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2011

Flow Cytometry (6)

Nature communications

A RUNX2 stabilization pathway mediates physiologic and pathologic bone formation.

"Published figure using CD51 (Integrin alpha V) monoclonal antibody (Product # 13-0512-82) in Flow Cytometry"

Authors: Kim JM, Yang YS, Park KH, Ge X, Xu R, Li N, Song M, Chun H, Bok S, Charles JF, Filhol-Cochet O, Boldyreff B, Dinter T, Yu PB, Kon N, Gu W, Takarada T, Greenblatt MB, Shim JH

Species
Not Applicable

Dilution
Not Cited

Year
2020

Nidogen-1 Contributes to the Interaction Network Involved in Pro-B Cell Retention in the Peri-sinusoidal Hematopoietic Stem Cell Niche.

"13-0512 was used in Flow cytometry/Cell sorting to study pro-B cells in their support of stromal cells and their interaction network allowing their retention."

Authors: Balzano M, De Grandis M, Vu Manh TP, Chasson L, Bardin F, Farina A, Sergé A, Bidaut G, Charbord P, Hérault L, Bailly AL, Cartier-Michaud A, Boned A, Dalod M, Duprez E, Genever P, Coles M, Bajenoff M, Xerri L, Aurrand-Lions M, Schiff C, Mancini SJC

Species
Mouse

Dilution
Not Cited

Year
2019

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

More applications with references on thermofisher.com

FN (1)

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