

# 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
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	13 Publications
Functional Assay (FN)	-	1 Publication

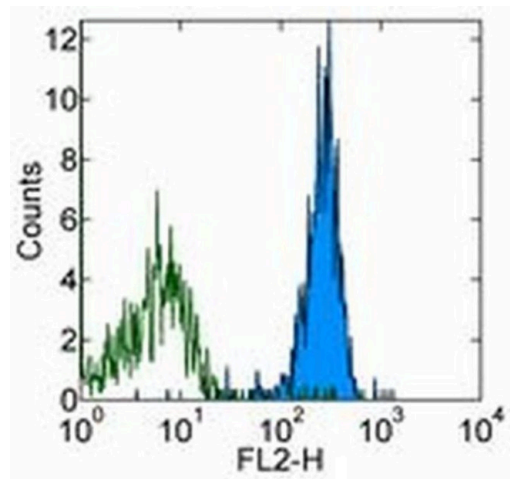
## Product Specific Information

**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 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.

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



**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.

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## Immunohistochemistry (2)

<p>JCI insight</p> <p><b>Soluble Thy-1 reverses lung fibrosis via its integrin-binding motif.</b></p> <p>"Published figure using CD51 (Integrin alpha V) monoclonal antibody (Product # 13-0512-82) in Immunohistochemistry"</p> <p>Authors: Tan C,Jiang M,Wong SS,Espinoza CR,Kim C,Li X,Connors E,Hagood JS</p>	<p>Year</p> <p>2019</p>
<p>Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine</p> <p><b>A triple-targeted ultrasound contrast agent provides improved localization to tumor vasculature.</b></p> <p>"Published figure using CD51 (Integrin alpha V) monoclonal antibody (Product # 13-0512-82) in Flow Cytometry"</p> <p>Authors: Warram JM,Sorace AG,Saini R,Umphrey HR,Zinn KR,Hoyt K</p>	<p>Year</p> <p>2011</p> <p>Species</p> <p>Human Mouse</p>

## Flow Cytometry (13)

<p>Frontiers in endocrinology</p> <p><b>Isolation and <i>in vitro</i> characterization of murine young-adult long bone skeletal progenitors.</b></p> <p>"13-0512-82 was used in Flow cytometry/Cell sorting to propose a validated isolation and culture protocol to study metaphyseal/endosteal SSPC biology in vitro."</p> <p>Authors: Loopmans S,Stockmans I,Carmeliet G,Stegen S</p>	<p>Year</p> <p>2022</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:100</p>
<p>Cell reports</p> <p><b>TNF--induced alterations in stromal progenitors enhance leukemic stem cell growth via CXCR2 signaling.</b></p> <p>"13-0512-82 was used in Flow Cytometry to find that TNF--mediated alterations in CML BM stromal niches enhance support of LSC maintenance and growth via CXCL1-CXCR2 signaling and that CXCR2 inhibition effectively depletes CML LSCs."</p> <p>Authors: Agarwal P,Li H,Choi K,Hueneman K,He J,Welner RS,Starczynowski DT,Bhatia R</p>	<p>Year</p> <p>2021</p> <p>Species</p> <p>Mouse</p>

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## More applications with references on thermofisher.com

### FN (1)

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