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

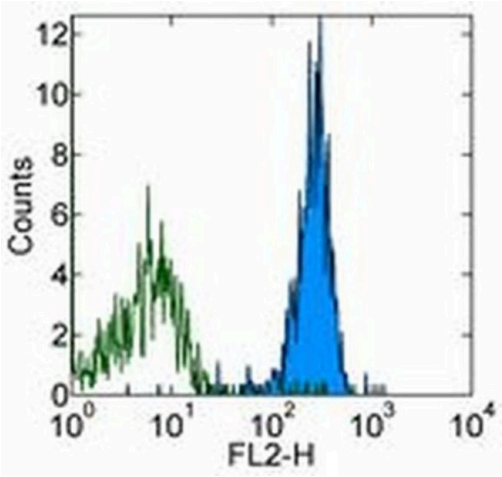
Description: The RMV-7 monoclonal antibody reacts with the mouse CD51 molecule, the integrin alpha v chain. This approximately 120 kDa surface molecule non-covalently associates with the beta subunits of the integrin family including beta3 (CD61), beta1 (CD29), beta5 and beta6 to form receptors for extracellular 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 10^5 to 10^8 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

16 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

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.

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

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

Year
2011

Species
Human
Mouse

Flow Cytometry (13)

Frontiers in endocrinology

Isolation and *in vitro* characterization of murine young-adult long bone skeletal progenitors.

"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."

Authors: Loopmans S,Stockmans I,Carmeliet G,Stegen S

Year
2022

Species
Mouse

Dilution
1:100

Cell reports

TNF--induced alterations in stromal progenitors enhance leukemic stem cell growth via CXCR2 signaling.

"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."

Authors: Agarwal P,Li H,Choi K,Hueneman K,He J,Welner RS,Starczynowski DT,Bhatia R

Year
2021

Species
Mouse

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

FN (1)