

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	RMV-7
Conjugate	Unconjugated
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
RRID	AB_467296

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	9 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	-

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, immunoprecipitation, and functional assays. Soluble RMV-7 blocks adhesion to fibronectin and vitronectin and immobilized RMV-7 induces activation. (Please use Functional Grade purified RMV-7, cat. 16-0512, in functional assays.).

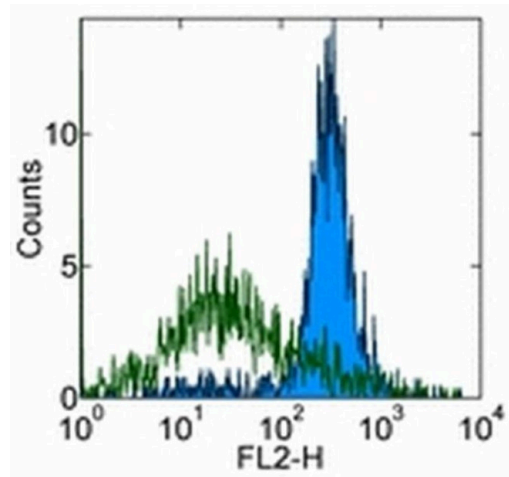
Applications Tested: The RMV-7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD51 (Integrin alpha V) Monoclonal Antibody (RMV-7), eBioscience™



CD51 (Integrin alpha V) Antibody (14-0512-82) in Flow
Staining of C57Bl/6 bone marrow cells with 1 µg of Rat IgG1 Isotype Control Purified (Product # 14-4301) (open histogram) or 1 µg of Anti-Mouse CD51 (Integrin alpha V) Purified (filled histogram) followed by Anti-Rat IgG PE (Product # 12-4822). Cells in the large scatter population were used for analysis.

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Immunohistochemistry (1)

<p>Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine</p> <p>A triple-targeted ultrasound contrast agent provides improved localization to tumor vasculature.</p> <p>"Published figure using CD51 (Integrin alpha V) monoclonal antibody (Product # 14-0512-82) in Flow Cytometry"</p> <p>Authors: Warram JM,Sorace AG,Saini R,Umphrey HR,Zinn KR,Hoyt K</p>	<p>Year 2011</p>
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Flow Cytometry (9)

<p>Nature communications</p> <p>A RUNX2 stabilization pathway mediates physiologic and pathologic bone formation.</p> <p>"Published figure using CD51 (Integrin alpha V) monoclonal antibody (Product # 14-0512-82) in Flow Cytometry"</p> <p>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</p>	<p>Year 2020</p>
<p>Nature communications</p> <p>Age-specific biological and molecular profiling distinguishes paediatric from adult acute myeloid leukaemias.</p> <p>"Published figure using CD51 (Integrin alpha V) monoclonal antibody (Product # 14-0512-82) in Flow Cytometry"</p> <p>Authors: Chaudhury S,O'Connor C,Cañete A,Bittencourt-Silvestre J,Sarrou E,Prendergast Á,Choi J,Johnston P,Wells CA,Gibson B,Keeshan K</p>	<p>Year 2018</p>

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Neutralization (1)

<p>Nature communications</p> <p>The matricellular protein CCN1 mediates neutrophil efferocytosis in cutaneous wound healing.</p> <p>"14-0512 was used in Blocking experiments to establish the matricellular protein, CCN1, as a critical opsonin in skin injury."</p> <p>Authors: Jun JI,Kim KH,Lau LF</p>	<p>Year 2015</p> <p>Species Mouse</p>
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