

CD51 (Integrin alpha V) Monoclonal Antibody (RMV-7), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	RMV-7
Conjugate	PE
Excitation/Emission Max	565/576 nm
Form	Liquid
Concentration	0.2 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_465704

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	25 Publications

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.

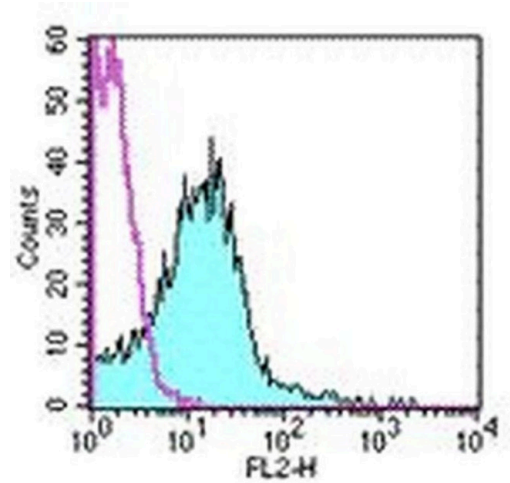
Applications Reported: The RMV-7 antibody has been reported for use in flow cytometric analysis.

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 0.5 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.

Excitation: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD51 (Integrin alpha V) Antibody (12-0512-82) in Flow
Staining of BALB/c splenocytes with staining buffer (autofluorescence) (open histogram) or 0.25 µg of Anti-Mouse CD51 (Integrin alpha V) PE (filled histogram). Total viable cells were used for analysis.

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26 References

Immunocytochemistry (1)

<p>Nature medicine</p> <p>Chemotherapy-induced bone marrow nerve injury impairs hematopoietic regeneration.</p> <p>"12-0512 was used in Flow cytometry/Cell sorting to demonstrate the potential benefit of adrenergic nerve protection for shielding hematopoietic niches from injury."</p> <p>Authors: Lucas D,Scheiermann C,Chow A,Kunisaki Y,Bruns I,Barrick C,Tessarollo L,Frenette PS</p>	<p>Year 2013</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
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Flow Cytometry (25)

<p>eLife</p> <p>Distinct skeletal stem cell types orchestrate long bone skeletogenesis.</p> <p>"12-0512-82 was used in Flow Cytometry to address previously unappreciated shortcomings of SSC research."</p> <p>Authors: Ambrosi TH,Sinha R,Steininger HM,Hoover MY,Murphy MP,Koepke LS,Wang Y,Lu WJ,Morri M,Neff NF,Weissman IL,Longaker MT,Chan CK</p>	<p>Year 2021</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
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<p>Cell</p> <p>Type V Collagen in Scar Tissue Regulates the Size of Scar after Heart Injury.</p> <p>"12-0512-82 was used in Flow Cytometry to demonstrate that collagen V regulates scar size in an integrin-dependent manner."</p> <p>Authors: Yokota T,McCourt J,Ma F,Ren S,Li S,Kim TH,Kurmangaliyev YZ,Nasiri R,Ahadian S,Nguyen T,Tan XHM,Zhou Y,Wu R,Rodriguez A,Cohn W,Wang Y,Whitelegge J,Ryazantsev S,Khademhosseini A,Teitell MA,Chiou PY,Birk DE,Rowat AC,Crosbie RH,Pellegrini M,Seldin M,Lusis AJ,Deb A</p>	<p>Year 2020</p> <p>Species Mouse</p> <p>Dilution 1:20</p>
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