

CD41a Monoclonal Antibody (eBioMWReg30 (MWReg30)), APC, 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), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioMWReg30 (MWReg30)
Conjugate	APC
Excitation/Emission Max	651/660 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_1603237

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	49 Publications

Product Specific Information

Description: The eBioMWReg30 monoclonal antibody reacts with mouse CD41 (fibrinogen receptor, gpIIb, integrin alpha IIb). While initially thought to be expressed exclusively on the surface of platelets and megakaryocytes, it has been demonstrated that CD41 is also expressed on hematopoietic progenitors in the embryo, fetus and adult. CD41 associates with CD61 (gpIIIa, integrin beta III) to form a receptor which plays a major role in platelet function, including binding of several adhesion molecules such as fibrinogen, fibronectin and vitronectin.

Recently, the SLAM-family markers, CD48 and CD150 have been used to reliably identify hematopoietic stem cells (HSC). Specifically, it was found that CD150+CD48- bone marrow cells were highly efficient in their ability to confer long-term multi-lineage reconstitution in irradiated mice. Furthermore, the efficiency of reconstitution was enhanced when HSCs were further enriched through the exclusion of CD41+ cells. Thus, the use of CD150+CD48-CD41- as an expression profile efficiently identifies hematopoietic stem cells.

Applications Reported: This eBioMWReg30 (MWReg30) antibody has been reported for use in flow cytometric analysis.

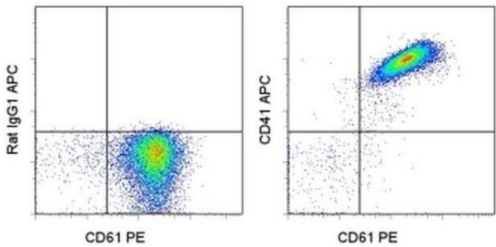
Applications Tested: This eBioMWReg30 (MWReg30) antibody has been tested by flow cytometric analysis of mouse platelets. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number 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: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD41a Monoclonal Antibody (eBioMWReg30 (MWReg30)), APC, eBioscience™



CD41a Antibody (17-0411-82) in Flow
Staining of mouse platelets with Anti-Mouse CD61 PE (Product # 12-0611-82) and 0.125 µg of Rat IgG1 K Isotype Control APC (Product # 17-4301-82) (left) or 0.125 µg of Anti-Mouse CD41 APC (right).

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50 References

Immunocytochemistry (1)

<p>PLoS genetics</p> <p>Rasa3 controls megakaryocyte Rap1 activation, integrin signaling and differentiation into proplatelet.</p> <p>"17-0411-82 was used in Immunocytochemistry-immunofluorescence to define the cellular and molecular mechanisms of terminal megakaryopoiesis alterations."</p> <p>Authors: Molina-Ortiz P, Polizzi S, Ramery E, Gayral S, Delierneux C, Oury C, Iwashita S, Schurmans S</p>	<p>Year 2014</p> <p>Species Mouse</p>
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Flow Cytometry (49)

<p>Blood advances</p> <p>Analysis of preplatelets and their barbell platelet derivatives by imaging flow cytometry.</p> <p>"17-0411-82 was used in Flow cytometry/Cell sorting to demonstrate that a subpopulation of large platelets are immature preplatelets that can transform into barbells and undergo fission during maturation."</p> <p>Authors: Kemble S, Dalby A, Lowe GC, Nicolson PLR, Watson SP, Senis Y, Thomas SG, Harrison P</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:100</p>
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<p>The Journal of biological chemistry</p> <p>SNAP23 is essential for platelet and mast cell development and required in connective tissue mast cells for anaphylaxis.</p> <p>"Published figure using CD41a monoclonal antibody (Product # 17-0411-82) in Flow Cytometry"</p> <p>Authors: Cardenas RA, Gonzalez R, Sanchez E, Ramos MA, Cardenas EI, Rodarte AI, Alcazar-Felix RJ, Isaza A, Burns AR, Heidelberg R, Adachi R</p>	<p>Year 2021</p>
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