

CD41a Monoclonal Antibody (eBioMWRReg30 (MWRReg30)), Alexa Fluor 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), Alexa Fluor 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioMWRReg30 (MWRReg30)
Conjugate	Alexa Fluor® 700
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_2815234

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	2 Publications

Product Specific Information

Description: The eBioMWRReg30 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 that 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 eBioMWRReg30 (MWRReg30) antibody has been reported for use in flow cytometric analysis.

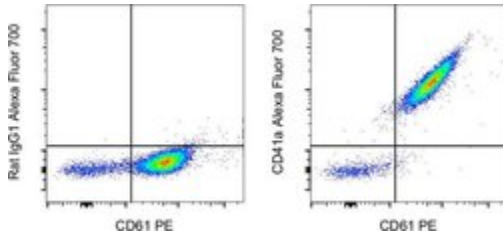
Applications Tested: This eBioMWRReg30 (MWRReg30) antibody has been tested by flow cytometric analysis of mouse platelets. This may be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number 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.

Alexa Fluor 700 emits at 723 nm and can be excited with the red laser (633-647 nm). Most instruments will require a 685 LP mirror and 710/20 band pass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser

Product Images For CD41a Monoclonal Antibody (eBioMWRReg30 (MWRReg30)), Alexa Fluor 700, eBioscience™



CD41a Antibody (56-0411-82) in Flow

C57BL/6 mouse platelets were stained with CD61 (Integrin beta 3) Monoclonal Antibody, PE (Product # 12-0611-82) and 0.125 µg of Rat IgG1 kappa Isotype Control, Alexa Fluor 700 (Product # 56-4301-80) (left) or 0.125 µg of CD41a Monoclonal Antibody, Alexa Fluor 700 (right).

[View more figures on thermofisher.com](https://www.thermofisher.com)

Immunohistochemistry (1)

British journal of haematology

All-trans-retinoic acid shifts Th1 towards Th2 cell differentiation by targeting NFAT1 signalling to ameliorate immune-mediated aplastic anaemia.

"Published figure using CD41a monoclonal antibody (Product # 56-0411-82) in Immunohistochemistry"

Authors: Tang D,Liu S,Sun H,Qin X,Zhou N,Zheng W,Zhang M,Zhou H,Tuersunayi A,Duan C,Chen J

Species
Not Applicable

Dilution
Not Cited

Year
2020

Flow Cytometry (2)

The Journal of biological chemistry

SNAP23 is essential for platelet and mast cell development and required in connective tissue mast cells for anaphylaxis.

"Published figure using CD41a monoclonal antibody (Product # 56-0411-82) in Flow Cytometry"

Authors: Cardenas RA,Gonzalez R,Sanchez E,Ramos MA,Cardenas EI,Rodarte AI,Alcazar-Felix RJ,Isaza A,Burns AR,Heidelberg R,Adachi R

Species
Not Applicable

Dilution
Not Cited

Year
2021

Cell

Hematopoietic Stem Cells Count and Remember Self-Renewal Divisions.

"Published figure using CD41a monoclonal antibody (Product # 56-0411-82) in Flow Cytometry"

Authors: Bernitz JM,Kim HS,MacArthur B,Sieburg H,Moore K

Species
Not Applicable

Dilution
Not Cited

Year
2016

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