

CD41a Monoclonal Antibody (eBioMWRReg30 (MWRReg30)), eFluor 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Hamster, Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Recommended Isotype Control	Rat IgG1 kappa Isotype Control (eBRG1), eFluor 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioMWRReg30 (MWRReg30)
Conjugate	eFluor® 450
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1582238

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	5 Publications
Immunocytochemistry (ICC/IF)	-	6 Publications
Flow Cytometry (Flow)	0.5 µg/test	36 Publications
Immunoprecipitation (IP)	-	1 Publication
Functional Assay (FN)	-	2 Publications
Peptide Array (Array)	-	1 Publication

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 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 eBioMWRReg30 antibody has been reported for use in flow cytometric analysis.

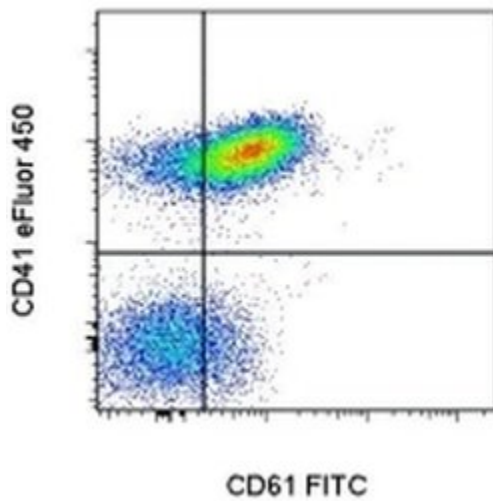
Applications Tested: This eBioMWRReg30 antibody has been tested by flow cytometric analysis of mouse platelets. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD41a Monoclonal Antibody (eBioMWRReg30 (MWRReg30)), eFluor 450, eBioscience™



CD41a Antibody (48-0411-82) in Flow

Staining of mouse platelets with Anti-Mouse/Rat CD61 (Integrin beta 3) PE (Product # 12-0611-82) and 0.25 µg of Rat IgG1 K Isotype Control eFluor® 450 (Product # 48-4301-82) (left) or 0.25 µg of Anti-Mouse CD41 eFluor® 450 (right). Total events were used for analysis.

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

51 References

Immunohistochemistry (5)

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 # 48-0411-82) 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

Development (Cambridge, England)

Transient loss of venous integrity during developmental vascular remodeling leads to red blood cell extravasation and clearance by lymphatic vessels.

"Published figure using CD41a monoclonal antibody (Product # 48-0411-82) in Immunofluorescence"

Authors: Zhang Y, Daubel N, Stritt S, Mäkinen T

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more IHC references on thermofisher.com](#)

Immunocytochemistry (6)

Nature communications

The role of platelets in mediating a response to human influenza infection.

"Published figure using CD41a monoclonal antibody (Product # 48-0411-82) in Immunocytochemistry"

Authors: Koupenova M, Corkrey HA, Vitseva O, Manni G, Pang CJ, Clancy L, Yao C, Rade J, Levy D, Wang JP, Finberg RW, Kurt-Jones EA, Freedman JE

Species
Not Applicable

Dilution
Not Cited

Year
2019

Nature medicine

Adrenergic nerve degeneration in bone marrow drives aging of the hematopoietic stem cell niche.

"Published figure using CD41a monoclonal antibody (Product # 48-0411-82) in Immunofluorescence"

Authors: Maryanovich M, Zahalka AH, Pierce H, Pinho S, Nakahara F, Asada N, Wei Q, Wang X, Ciero P, Xu J, Leftin A, Frenette PS

Species
Not Applicable

Dilution
Not Cited

Year
2018

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Flow (36)

IP (1)

FN (2)

Array (1)

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