

CD41a Monoclonal Antibody (eBioMWRReg30 (MWRReg30)), PE-Cyanine7, 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-Cyanine7, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | eBioMWRReg30 (MWRReg30) |
| Conjugate | PE-Cyanine7 |
| 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_1234970 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|-----------------|
| Flow Cytometry (Flow) | 0.5 µg/test | 41 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 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 (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 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.

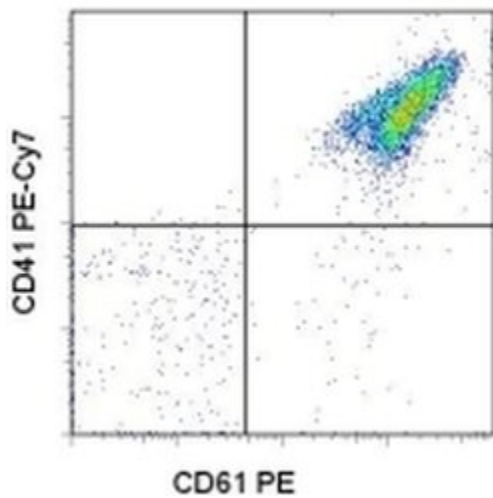
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488-561 nm; Emission: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD41a Monoclonal Antibody (eBioMWRReg30 (MWRReg30)), PE-Cyanine7, eBioscience™



CD41a Antibody (25-0411-82) in Flow

Staining of mouse platelets with Anti-Mouse CD61 PE (Product # 12-0611-82) and 0.25 μ g of Anti-Mouse CD41 PE-Cyanine7.

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

Flow Cytometry (41)

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 # 25-0411-82) 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

Clinical cancer research : an official journal of the American Association for Cancer Research

Activation of JAK/STAT Signaling in Megakaryocytes Sustains Myeloproliferation *In Vivo*.

"25-0411 was used in Flow cytometry/Cell sorting to study the role of JAK/STAT signalling in megakaryocyte myeloproliferation."

Authors: Woods B, Chen W, Chiu S, Marinaccio C, Fu C, Gu L, Bulic M, Yang Q, Zouak A, Jia S, Suraneni PK, Xu K, Levine RL, Crispino JD, Wen QJ

Species
Mouse

Dilution
Not Cited

Year
2019

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

More applications with references on thermofisher.com

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