

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Hamster, Mouse, Human
Host/Isotype	Rat / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	eBioMWRReg30 (MWRReg30)
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_763490

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.25 µg/test	36 Publications
ELISA (ELISA)	Assay-Dependent	-
Immunoprecipitation (IP)	Assay-Dependent	1 Publication
Functional Assay (FN)	Assay-Dependent	1 Publication
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 (MWRReg30) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and ELISA.

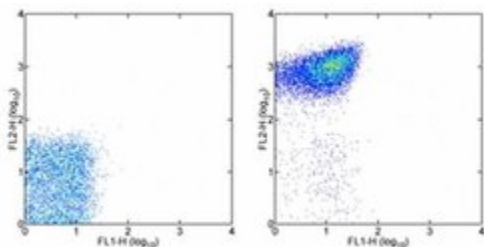
Applications Tested: This eBioMWRReg30 (MWRReg30) antibody has been tested by flow cytometric analysis of mouse platelets. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number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

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD41a Antibody (14-0411-82) in Flow

Staining of mouse platelets with 0.125 µg of Rat IgG1 Isotype Control Purified (Product # 14-4301-82) (left) or 0.125 µg of Anti-Mouse CD41 Purified (right) followed by Anti-Rat IgG PE (Product # 12-4822).

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

Western Blot (1)

Nature

A directional switch of integrin signalling and a new anti-thrombotic strategy.

"Published figure using CD41a monoclonal antibody (Product # 14-0411-82) in Western Blot"

Authors: Shen B,Zhao X,O'Brien KA,Stojanovic-Terpo A,Delaney MK,Kim K,Cho J,Lam SC,Du X

Species
Hamster

Dilution
Not Cited

Year
2013

Immunohistochemistry (6)

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 # 14-0411-82) 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 # 14-0411-82) 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](#)

Immunohistochemistry (Frozen) (2)

Nature communications

Cathelicidins prime platelets to mediate arterial thrombosis and tissue inflammation.

"14-0411 was used in Immunohistochemistry-immunofluorescence to understand the role of cathelicidin LL-37 in thrombosis and tissue inflammation."

Authors: Pircher J,Czermak T,Ehrlich A,Eberle C,Gaitzsch E,Margraf A,Grommes J,Saha P,Titova A,Ishikawa-Ankerhold H,Stark K,Petzold T,Stocker T,Weckbach LT,Novotny J,Sperandio M,Nieswandt B,Smith A,Mannell H,Walzog B,Horst D,Soehnlein O,Massberg S,Schulz C

Species
Mouse

Dilution
Not Cited

Year
2018

More applications with references on thermofisher.com

ICC/IF (7) Flow (36) IP (1) FN (1) Array (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.