

# CD41a Monoclonal Antibody (HIP8), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	HIP8
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_467236

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.5 µg/test	3 Publications

## Product Specific Information

**Description:** The HIP8 monoclonal antibody reacts with the human CD41 molecule, the integrin  $\alpha$ IIb also known as platelet GPIIb. CD41 non-covalently associates with integrin  $\beta$ 3 (GPIIIa, CD61) and is expressed by megakaryocytes and platelets. The CD41/CD61 complex is a receptor for fibronectin, fibrinogen, von Willebrand factor, vitronectin and thrombospondin and mediates platelets aggregation. HIP8 blocks platelet aggregation.

**Applications Reported:** The HIP8 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining.

**Applications Tested:** The HIP8 antibody has been tested by flow cytometric analysis of human 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  $10^5$  to  $10^8$  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.

## Western Blot (1)

<p>The Journal of clinical investigation</p> <p><b>Hepatocyte mitochondrial DNA drives nonalcoholic steatohepatitis by activation of TLR9.</b></p> <p>"Published figure using CD41a monoclonal antibody (Product # 14-0419-82) in Western Blot"</p> <p>Authors: Garcia-Martinez I,Santoro N,Chen Y,Hoque R,Ouyang X,Caprio S,Shlomchik MJ,Coffman RL,Candia A,Mehal WZ</p>	<p><b>Year</b> 2016</p>
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## Immunocytochemistry (3)

<p>TH open : companion journal to thrombosis and haemostasis</p> <p><b>Platelet Toll-Like-Receptor-2 and -4 Mediate Different Immune-Related Responses to Bacterial Ligands.</b></p> <p>"14-0419-82 was used in Immunocytochemistry to highlight the role of platelet TLR2 and TLR4 in processes of innate immunity."</p> <p>Authors: Niklaus M,Klingler P,Weber K,Koessler A,Kuhn S,Boeck M,Kobsar A,Koessler J</p>	<p><b>Year</b> 2022</p> <p><b>Species</b> Human</p>
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<p>Research square</p> <p><b>SARS-CoV-2 Receptors are Expressed on Human Platelets and the Effect of Aspirin on Clinical Outcomes in COVID-19 Patients.</b></p> <p>"Published figure using CD41a monoclonal antibody (Product # 14-0419-82) in Immunocytochemistry"</p> <p>Authors: Sahai A,Bhandari R,Koupenova M,Freedman JE,Godwin M,McIntyre T,Chung MK,Iskandar JP,Kamran H,Hariri E,Aggarwal A,Kalra A,Bartholomew JR,McCrae KR,Elbadawi A,Svensson LG,Kapadia S,Cameron SJ</p>	<p><b>Year</b> 2020</p>
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## Flow Cytometry (3)

<p>The Journal of experimental medicine</p> <p><b>Heterogeneous disease-propagating stem cells in juvenile myelomonocytic leukemia.</b></p> <p>"Published figure using CD41a monoclonal antibody (Product # 14-0419-82) in Flow Cytometry"</p> <p>Authors: Louka E,Povinelli B,Rodriguez-Meira A,Buck G,Wen WX,Wang G,Sousos N,Ashley N,Hamblin A,Booth CAG,Roy A,Elliott N,Iskander D,de la Fuente J,Fordham N,O'Byrne S,Ingloft S,Norfo R,Saio M,Thongjuea S,Rao A,Roberts I,Mead AJ</p>	<p><b>Year</b> 2021</p>
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