

CD41a Monoclonal Antibody (HIP8), eBioscience™

| Product Details | |
|--------------------|-------------------------|
| Size | 100 µg |
| Species Reactivity | 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) | - | 2 Publications |
| Flow Cytometry (Flow) | 0.5 µg/test | 1 Publication |

Product Specific Information

Description: The HIP8 monoclonal antibody reacts with the human CD41 molecule, the integrin alphaIIb also known as platelet GPIIb. CD41 non-covalently associates with integrin beta3 (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 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.

4 References

Western Blot (1)

The Journal of clinical investigation

Hepatocyte mitochondrial DNA drives nonalcoholic steatohepatitis by activation of TLR9.

"Published figure using CD41a monoclonal antibody (Product # 14-0419-82) in Western Blot"

Authors: Garcia-Martinez I,Santoro N,Chen Y,Hoque R,Ouyang X,Caprio S,Shlomchik MJ,Coffman RL,Candia A,Mehal WZ

Species

Not Applicable

Dilution

Not Cited

Year

2016

Immunocytochemistry (2)

Research square

SARS-CoV-2 Receptors are Expressed on Human Platelets and the Effect of Aspirin on Clinical Outcomes in COVID-19 Patients.

"Published figure using CD41a monoclonal antibody (Product # 14-0419-82) in Immunocytochemistry"

Authors: Sahai A,Bhandari R,Koupenova M,Freedman J,Godwin M,McIntyre T,Chung M,Iskandar JP,Kamran H,Aggarwal A,Kalra A,Bartholomew J,McCrae K,Elbadawi A,Svensson L,Kapadia S,Hariri E,Cameron S

Species

Not Applicable

Dilution

Not Cited

Year

2020

Nature communications

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

"Published figure using CD41a monoclonal antibody (Product # 14-0419-82) 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

Flow Cytometry (1)

British journal of cancer

Mitochondrial DNA in the tumour microenvironment activates neutrophils and is associated with worse outcomes in patients with advanced epithelial ovarian cancer.

"Published figure using CD41a monoclonal antibody (Product # 14-0419-82) in Flow Cytometry"

Authors: Singel KL,Grzankowski KS,Khan ANMNH,Grimm MJ,D'Auria AC,Morrell K,Eng KH,Hylander B,Mayor PC,Emmons TR,Lénárt N,Fekete R,Környei Z,Muthukrishnan U,Gilthorpe JD,Urban CF,Itagaki K,Hauser C.J,Leifer C,Moysich KB,Odunsi K,Dénes Á,Segal BH

Species

Not Applicable

Dilution

Not Cited

Year

2019

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