

PE/Cyanine5 anti-human CD41 Antibody

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| Catalog# / Size | 303708 / 100 tests |
| Clone | HIP8 |
| Regulatory Status | RUO |
| Workshop | IV P38 |
| Other Names | gpIIb, CD41a |
| Isotype | Mouse IgG1, κ |
| Description | CD41 is a 125/25 kD α subunit of the gpIIb/IIIa (CD41/CD61) complex. CD41 is a heterodimer composed of a heavy chain (gpIIb α) and light chain (gpIIb β) linked by a single disulfide bond. It is a member of the integrin family primarily expressed on platelets and megakaryocytes. CD41 has been reported to be involved with platelet aggregation and platelet attachment to the ECM. CD41/CD61 complex acts as the receptor for fibrinogen, fibronectin, Von Willebrand factor, and thrombin. |

Product Details

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| Verified Reactivity | Human |
| Reported Reactivity | African Green, Baboon, Capuchin Monkey, Cynomolgus, Rhesus |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Formulation | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA) |
| Preparation | The antibody was purified by affinity chromatography, and conjugated with PE/Cyanine5 under optimal conditions. |
| Concentration | Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | FC - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. |
| Excitation Laser | Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm) |
| Application Notes | Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections and blocking of platelet aggregation ² . The HIP8 antibody has been reported to block the activation of platelets by various stimuli, including collagen, and ADP. |
| Additional Product Notes | BioLegend is in the process of converting the name PE/Cy5 to PE/Cyanine5. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine5 products. Please contact Technical Service if you have any questions. |
| Application References | <ol style="list-style-type: none"> Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York. McCarty OJT, <i>et al.</i> 2000. <i>Blood</i> 96:1789. Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) Zhi L <i>et al.</i> 2013. <i>PLoS One.</i> 8:e79869. (IHC) |
| Product Citations | <ol style="list-style-type: none"> Mitchell A, <i>et al.</i> 2016. <i>Sci Rep.</i> 6: 32651. PubMed Maisel D, <i>et al.</i> 2016. <i>PLoS One.</i> 11: 0159716. PubMed |

(PubMed link indicates BioLegend citation)

- Alonzo M, *et al.* 2012. *J Infect Dis.* 205:1321. [PubMed](#)
- Chou DB, *et al.* 2022. *Nat Commun.* 13:6021. [PubMed](#)
- Chou DB, *et al.* 2020. *Nat Biomed Eng.* 0.440277778. [PubMed](#)

RRID AB_314378 (BioLegend Cat. No. 303708)

Antigen Details

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| Structure | Integrin family, α subunit of CD41/CD61 (GPIIb-IIIa) complex, 125/22 kD |
| Distribution | Platelets, megakaryocytes |
| Function | Platelet aggregation, platelet attachment to extracellular matrix |
| Ligand/Receptor | Fibrinogen, fibronectin, von Willebrand factor, thrombin |
| Cell Type | Megakaryocytes, Platelets |
| Biology Area | Cell Adhesion, Cell Biology, Immunology |
| Molecular Family | Adhesion Molecules, CD Molecules |
| Antigen References | <ol style="list-style-type: none">Denzin L, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 184:2153.Denzin L, <i>et al.</i> 1995. <i>Cell</i> 82:155.Riberdy J, <i>et al.</i> 1994. <i>J. Cell Biol.</i> 125:1225. |
| Gene ID | 3674 |

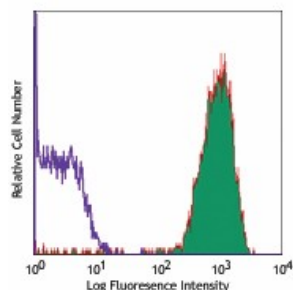
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD41, FITC anti-human CD41, PE anti-human CD41, PE/Cyanine5 anti-human CD41, Purified anti-human CD41, Pacific Blue™ anti-human CD41, APC/Cyanine7 anti-human CD41, PE/Cyanine7 anti-human CD41, PerCP/Cyanine5.5 anti-human CD41, Purified anti-human CD41 (Maxpar® Ready), Alexa Fluor® 647 anti-human CD41, Alexa Fluor® 700 anti-human CD41, Alexa Fluor® 488 anti-human CD41, Brilliant Violet 421™ anti-human CD41, PE/Dazzle™ 594 anti-human CD41, Brilliant Violet 510™ anti-human CD41, Biotin anti-human CD41, TotalSeq™-A0353 anti-human CD41, TotalSeq™-C0353 anti-human CD41, Brilliant Violet 785™ anti-human CD41, Brilliant Violet 605™ anti-human CD41, Ultra-LEAF™ Purified anti-human CD41, TotalSeq™-B0353 anti-human CD41 Antibody, APC/Fire™ 750 anti-human CD41 Antibody, TotalSeq™-D0353 anti-human CD41

Product Data



Human peripheral blood platelets stained with HIP8 PE/Cyanine5

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