PerCP/Cyanine5.5 anti-human CD41 Antibody

Catalog# / Size	303719 / 25 tests 303720 / 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 (gpIIbα) and light chain (gpIIbβ) 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

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 PerCP/Cyanine5.5 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood. * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
Excitation Laser	Blue Laser (488 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 PerCP/Cy5.5 to PerCP/Cyanine5.5. The dye molecule remains the same, so you should expect the same quality and performance from our PerCP/Cyanine5.5 products. Contact Technical Service if you have any questions.
Application References **(PubMed link indicates BioLegend citation)**	1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York. 2. McCarty OJT, *et al.* 2000. *Blood* 96:1789. 3. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC) 4. Zhi L *et al.* 2013. *PLoS One*. 8:e79869. (IHC)
Product Citations	

1. Jin J, *et al.* 2022. Cell Biosci. 12:114. PubMed
2. Noz MP, *et al.* 2020. Elife. 9:00. PubMed
3. Kumboyono K, *et al.* 2021. Vasc Health Risk Manag. 17:103. PubMed
4. Su H, *et al.* 2021. Cell Reports. 36(4):109421. PubMed

RRID	AB_2561731 (BioLegend Cat. No. 303719) AB_2561732 (BioLegend Cat. No. 303720)

Antigen Details

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	1. Denzin L, *et al.* 1996. *J. Exp. Med.* 184:2153. 2. Denzin L, *et al.* 1995. *Cell* 82:155. 3. Riberdy J, *et al.* 1994. *J. Cell Biol.* 125:1225.
Gene ID	3674

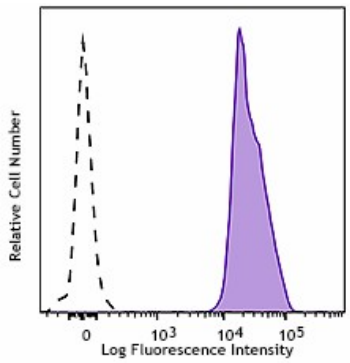
Related Protocols

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 were stained with CD41 (clone HIP8) PerCP/Cyanine5.5 (filled histogram) or mouse IgG1, ? PerCP/Cyanine5.5 isotype control (open histogram).

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