

## PE/Cyanine7 anti-human CD41 Antibody

<b>Catalog# / Size</b>	303718 / 100 tests
<b>Clone</b>	HIP8
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	IV P38
<b>Other Names</b>	gpIIb, CD41a
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD41 is a 125/25 kD $\alpha$ subunit of the gpIIb/IIIa (CD41/CD61) complex. CD41 is a heterodimer composed of a heavy chain (gpIIb $\alpha$ ) and light chain (gpIIb $\beta$ ) 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

<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	African Green, Baboon, Capuchin Monkey, Cynomolgus, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections and blocking of platelet aggregation <sup>2</sup> . The HIP8 antibody has been reported to block the activation of platelets by various stimuli, including collagen, and ADP.
<b>Additional Product Notes</b>	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact <a href="#">Technical Service</a> if you have any questions.
<b>Application References</b>	1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York. 2. McCarty OJT, <i>et al.</i> 2000. <i>Blood</i> 96:1789. 3. Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) 4. Zhi L <i>et al.</i> 2013. <i>PLoS One</i> . 8:e79869. (IHC)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Garcia-Larragoiti N, <i>et al.</i> 2021. <i>J Thromb Haemost.</i> 19:2572. <a href="#">PubMed</a> 2. Fujii T, <i>et al.</i> 2015. <i>Proc Natl Acad Sci U S A.</i> 112: 12800 - 12805. <a href="#">PubMed</a>

3. Stephens OR, *et al.* 2020. *Mitochondrion*. 54:102. [PubMed](#)
4. Blom T, *et al.* 2021. *EJNMMI Res.* 11:81. [PubMed](#)
5. Palpant N, *et al.* 2013. *Development*. 140:3799. [PubMed](#)

**RRID** AB\_10899413 (BioLegend Cat. No. 303718)

## Antigen Details

<b>Structure</b>	Integrin family, $\alpha$ subunit of CD41/CD61 (GPIIb-IIIa) complex, 125/22 kD
<b>Distribution</b>	Platelets, megakaryocytes
<b>Function</b>	Platelet aggregation, platelet attachment to extracellular matrix
<b>Ligand/Receptor</b>	Fibrinogen, fibronectin, von Willebrand factor, thrombin
<b>Cell Type</b>	Megakaryocytes, Platelets
<b>Biology Area</b>	Cell Adhesion, Cell Biology, Immunology
<b>Molecular Family</b>	Adhesion Molecules, CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Denzin L, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 184:2153.</li><li>2. Denzin L, <i>et al.</i> 1995. <i>Cell</i> 82:155.</li><li>3. Riberdy J, <i>et al.</i> 1994. <i>J. Cell Biol.</i> 125:1225.</li></ol>
<b>Gene ID</b>	<a href="#">3674</a>

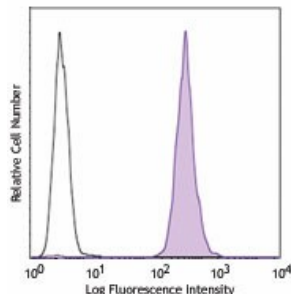
## Related Protocols

[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 platelets were stained with CD41 (clone HIP8) APC/Cyanine7 (filled histogram) or mouse IgG1 APC/Cyanine7 isotype control (open histogram).

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