

## Ultra-LEAF™ Purified anti-human CD41 Antibody

<b>Catalog# / Size</b>	303745 / 100 µg 303746 / 1 mg
<b>Clone</b>	HIP8
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	IV P38
<b>Other Names</b>	gpIb, CD41a
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD41 is a 125/25 kD α subunit of the gpIb/IIIa (CD41/CD61) complex. CD41 is a heterodimer composed of a heavy chain (gpIbα) and light chain (gpIbβ) 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>	0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is < 0.01 EU/µg of the protein (< 0.001 ng/µg of the protein) as determined by the LAL test.
<b>Preparation</b>	The Ultra-LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.
<b>Concentration</b>	The antibody is bottled at the concentration indicated on the vial, typically between 2 mg/mL and 3 mg/mL. Older lots may have also been bottled at 1 mg/mL. 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. This Ultra-LEAF™ solution contains no preservative; handle under aseptic conditions.
<b>Application</b>	<a href="#">FC - Quality tested</a> <a href="#">CyTOF® - Verified</a> <a href="#">Block, IHC-F - Reported in the literature. not verified in house</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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
<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>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>RRID</b>	AB_2832588 (BioLegend Cat. No. 303745) AB_2832589 (BioLegend Cat. No. 303746)

## Antigen Details

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<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>	1. Denzin L, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 184:2153. 2. Denzin L, <i>et al.</i> 1995. <i>Cell</i> 82:155. 3. Riberdy J, <i>et al.</i> 1994. <i>J. Cell Biol.</i> 125:1225.
<b>Gene ID</b>	<a href="#">3674</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

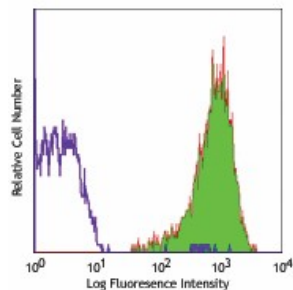
## Other Formats

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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

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Human peripheral blood platelets stained with Ultra-LEAF™ Purified HIP8, followed by anti-mouse IgG FITC

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