

## PerCP anti-human CD42b Antibody

<b>Catalog# / Size</b>	303910 / 100 tests
<b>Clone</b>	HIP1
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	IV P70
<b>Other Names</b>	Glycocalicin, gplba
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	CD42b is a 145 kD glycoprotein known as gplba. It is covalently bonded to CD42c to form GPIb. CD42b is expressed on platelets and megakaryocytes. CD42b/c heterodimer forms a complex with CD42a and d and acts as the receptor for von Willibrand factor and thrombin.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Chimpanzee
<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 PerCP 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 $\leq 2.0$ $\mu\text{g}$ per million cells in 100 $\mu\text{l}$ volume. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP has a maximum absorption of 482 nm and a maximum emission of 675 nm.
<b>Application Notes</b>	Clone HIP1 recognizes an epitope within the N-terminal region of the GPIba chain <sup>5</sup> . Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, Western blotting, and inhibition of platelet aggregation <sup>2</sup> . The Ultra LEAF™ purified antibody (Endotoxin < 0.01 EU/ $\mu\text{g}$ , Azide-Free, 0.2 $\mu\text{m}$ filtered) is recommended for functional assays (Cat. No. 303939).
<b>Application References</b>	<ol style="list-style-type: none"><li>1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York.</li><li>2. Takahashi R, <i>et al.</i> 1999. <i>Blood</i>. 93:1951.</li><li>3. Saggu G, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:6457. <a href="#">PubMed</a></li><li>4. Meyer Dos Santos S, <i>et al.</i> 2011. <i>Blood</i>. 117:4999. (Block) <a href="#">PubMed</a></li><li>5. Vettore S, <i>et al.</i> 2008. <i>Haematologica</i>. 93:1743.</li></ol>
<b>RRID</b>	AB_2232662 (BioLegend Cat. No. 303910)

### Antigen Details

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<b>Structure</b>	Mucin, leucine-rich repeat family, 145 kD
<b>Distribution</b>	Platelets, megakaryocytes
<b>Function</b>	Complex with CD42a, c and d, platelet adhesion and activation
<b>Ligand/Receptor</b>	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. Clemetson K, <i>et al.</i> 1982. <i>J. Clin. Invest.</i> 70:304.</li> <li>2. Fox J, <i>et al.</i> 1988. <i>J. Biol. Chem.</i> 263:4882.</li> <li>3. Kuijpers R, <i>et al.</i> 1992 <i>Blood</i> 79:283.</li> </ol>
<b>Gene ID</b>	<a href="#">2812</a>

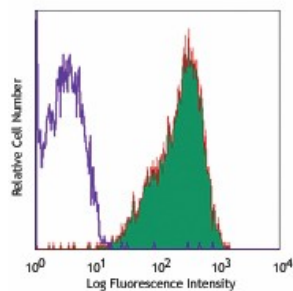
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

FITC anti-human CD42b, PE anti-human CD42b, Purified anti-human CD42b, PerCP anti-human CD42b, APC anti-human CD42b, APC/Cyanine7 anti-human CD42b, PerCP/Cyanine5.5 anti-human CD42b, PE/Cyanine7 anti-human CD42b, Alexa Fluor® 488 anti-human CD42b, Brilliant Violet 650™ anti-human CD42b, Alexa Fluor® 647 anti-human CD42b, Alexa Fluor® 700 anti-human CD42b, Brilliant Violet 510™ anti-human CD42b, Brilliant Violet 421™ anti-human CD42b, PE/Dazzle™ 594 anti-human CD42b, TotalSeq™-A0216 anti-human CD42b, Ultra-LEAF™ Purified anti-human CD42b, TotalSeq™-C0216 anti-human CD42b, TotalSeq™-B0216 anti-human CD42b, TotalSeq™-D0216 anti-human CD42b

## Product Data



Human peripheral blood platelets stained with HIP1 PerCP

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