

Brilliant Violet 650™ anti-human CD42b Antibody

Catalog# / Size	303925 / 25 tests 303926 / 100 tests
Clone	HIP1
Regulatory Status	RUO
Workshop	IV P70
Other Names	Glycocalicin, gplba
Isotype	Mouse IgG1, κ
Description	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

Verified Reactivity	Human
Reported Reactivity	Chimpanzee
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 Brilliant Violet 650™ 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	<p>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.</p> <p>Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.</p> <p>Learn more about Brilliant Violet™.</p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
Excitation Laser	Violet Laser (405 nm)
Application Notes	Clone HIP1 recognizes an epitope within the N-terminal region of the GPIba chain ⁵ . Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, Western blotting, and inhibition of platelet aggregation ² . The Ultra LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303939).

Application References

1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. Takahashi R, *et al.* 1999. *Blood*. 93:1951.
3. Saggu G, *et al.* 2013. *J. Immunol.* 190:6457. [PubMed](#)
4. Meyer Dos Santos S, *et al.* 2011. *Blood*. 117:4999. (Block) [PubMed](#)
5. Vettore S, *et al.* 2008. *Haematologica*. 93:1743.

RRID

AB_2715926 (BioLegend Cat. No. 303925)
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Antigen Details

Structure	Mucin, leucine-rich repeat family, 145 kD
Distribution	Platelets, megakaryocytes
Function	Complex with CD42a, c and d, platelet adhesion and activation
Ligand/Receptor	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">1. Clemetson K, <i>et al.</i> 1982. <i>J. Clin. Invest.</i> 70:304.2. Fox J, <i>et al.</i> 1988. <i>J. Biol. Chem.</i> 263:4882.3. Kuijpers R, <i>et al.</i> 1992 <i>Blood</i> 79:283.
Gene ID	2812

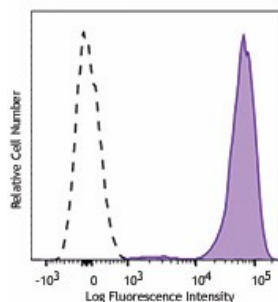
Related Protocols

[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 platelets were stained with CD42b (clone HIP1) Brilliant Violet 650™ (filled histogram) or mouse IgG1, κ Brilliant Violet 650™ isotype control (open histogram).

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