

FITC anti-human CD42b Antibody

Catalog# / Size	303903 / 25 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 FITC 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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 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/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 303939).
Application References	<ol style="list-style-type: none">1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV. Oxford University Press. New York.2. Takahashi R, <i>et al.</i> 1999. <i>Blood</i>. 93:1951.3. Saggi G, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:6457. PubMed4. Meyer Dos Santos S, <i>et al.</i> 2011. <i>Blood</i>. 117:4999. (Block) PubMed5. Vettore S, <i>et al.</i> 2008. <i>Haematologica</i>. 93:1743.
Product Citations	<ol style="list-style-type: none">1. Lee S, <i>et al.</i> 2021. <i>Nature</i>. 599:283. PubMed2. Marsden AJ, <i>et al.</i> 2021. <i>ACS Pharmacol Transl Sci.</i> 4:1567. PubMed
RRID	AB_314383 (BioLegend Cat. No. 303903)

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	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

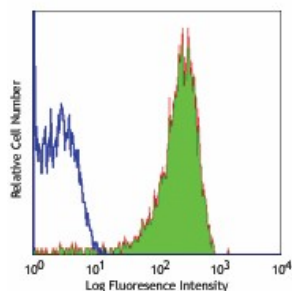
Related Protocols

[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 peripheral blood platelets stained with purified HIP1 FITC

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587