

## TotalSeq™-D0216 anti-human CD42b Antibody

<b>Catalog# / Size</b>	303945 / 10 µg
<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, κ
<b>Barcode Sequence</b>	TCCTAGTACCGAAGT
<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 1 mM EDTA
<b>Preparation</b>	The antibody was purified by chromatography and conjugated with TotalSeq™-D oligomer under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">PG - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> and the oligomer sequence is confirmed by sequencing. TotalSeq™-D antibodies are compatible with <a href="#">Mission Bio's Tapestry Single-Cell Sequencing Platform</a> for simultaneous detection of DNA and Protein.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
<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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 303939).
<b>Additional Product Notes</b>	TotalSeq™-D reagents are designed to profile protein expression at single cell level. The <a href="#">Mission Bio Tapestry platform</a> and sequencer (e.g. Illumina analyzers) are required. Please

contact [technical support](#) for more information, or visit [biolegend.com/totalseq/single-cell-dna](http://biolegend.com/totalseq/single-cell-dna)

The barcode flanking sequences are CGAGATGACTACGCTACTCATGG (PCR handle), and GAGCCGATCTAGTATCTCAGT\*C\*G (capture sequence). \* indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Application Technical Notes](#).

## 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. Saggi 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\_2904333 (BioLegend Cat. No. 303945)

## 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

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[TotalSeq™-D with Mission Bio Tapestri® Single-Cell DNA + Protein Protocol](#)

## Other Formats

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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

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