

TotalSeq™-C0216 anti-human CD42b Antibody

Catalog# / Size	303941 / 10 µg
Clone	HIP1
Regulatory Status	RUO
Workshop	IV P70
Other Names	Glycocalicin, gplba
Isotype	Mouse IgG1, κ
Barcode Sequence	TCCTAGTACCGAAGT
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 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-C oligomer under optimal conditions.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-C antibodies are compatible with 10x Genomics Chromium Single Cell Immune Profiling Solution.</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>
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).
Additional Product Notes	TotalSeq™ reagents are designed to profile protein levels at a single cell level following an optimized protocol similar to the CITE-seq workflow. A compatible single cell device (e.g. 10x Genomics Chromium System and Reagents) and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq .

The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR handle), and NNNNNNNNNCCCATATAAGA*A*A (capture sequence). N represents either randomly selected A, C, G, or T, and * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Scientific Poster Library](#).

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_2860787 (BioLegend Cat. No. 303941)

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

[TotalSeq™-B or -C with 10x Feature Barcoding Technology](#)

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

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