

TotalSeq™-B0353 anti-human CD41 Antibody

Catalog# / Size	303747 / 10 µg
Clone	HIP8
Regulatory Status	RUO
Workshop	IV P38
Other Names	gpIIb, CD41a
Isotype	Mouse IgG1, κ
Barcode Sequence	ACGTTGTGGCCTTGT
Description	CD41 is a 125/25 kD α subunit of the gpIIb/IIIa (CD41/CD61) complex. CD41 is a heterodimer composed of a heavy chain (gpIIbα) and light chain (gpIIbβ) linked by a single disulfide bond. It is a member of the integrin family primarily expressed on platelets and megakaryocytes. CD41 has been reported to be involved with platelet aggregation and platelet attachment to the ECM. CD41/CD61 complex acts as the receptor for fibrinogen, fibronectin, Von Willebrand factor, and thrombin.

Product Details

Verified Reactivity	Human
Reported Reactivity	African Green, Baboon, Capuchin Monkey, Cynomolgus, Rhesus
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™-B 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™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression Solutions.</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	Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections and blocking of platelet aggregation ² . The HIP8 antibody has been reported to block the activation of platelets by various stimuli, including collagen, and ADP.
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 GTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCTNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGGTCCTAGC*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

(PubMed link indicates BioLegend citation)

1. Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press. New York.
2. McCarty OJT, *et al.* 2000. *Blood* 96:1789.
3. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
4. Zhi L *et al.* 2013. *PLoS One.* 8:e79869. (IHC)

RRID AB_2890735 (BioLegend Cat. No. 303747)

Antigen Details

Structure	Integrin family, α subunit of CD41/CD61 (GPIIb-IIIa) complex, 125/22 kD
Distribution	Platelets, megakaryocytes
Function	Platelet aggregation, platelet attachment to extracellular matrix
Ligand/Receptor	Fibrinogen, fibronectin, 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. Denzin L, <i>et al.</i> 1996. <i>J. Exp. Med.</i> 184:2153.2. Denzin L, <i>et al.</i> 1995. <i>Cell</i> 82:155.3. Riberdy J, <i>et al.</i> 1994. <i>J. Cell Biol.</i> 125:1225.
Gene ID	3674

Related Protocols

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

Other Formats

APC anti-human CD41, FITC anti-human CD41, PE anti-human CD41, PE/Cyanine5 anti-human CD41, Purified anti-human CD41, Pacific Blue™ anti-human CD41, APC/Cyanine7 anti-human CD41, PE/Cyanine7 anti-human CD41, PerCP/Cyanine5.5 anti-human CD41, Purified anti-human CD41 (Maxpar® Ready), Alexa Fluor® 647 anti-human CD41, Alexa Fluor® 700 anti-human CD41, Alexa Fluor® 488 anti-human CD41, Brilliant Violet 421™ anti-human CD41, PE/Dazzle™ 594 anti-human CD41, Brilliant Violet 510™ anti-human CD41, Biotin anti-human CD41, TotalSeq™-A0353 anti-human CD41, TotalSeq™-C0353 anti-human CD41, Brilliant Violet 785™ anti-human CD41, Brilliant Violet 605™ anti-human CD41, Ultra-LEAF™ Purified anti-human CD41, TotalSeq™-B0353 anti-human CD41 Antibody, APC/Fire™ 750 anti-human CD41 Antibody, TotalSeq™-D0353 anti-human CD41

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.

*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, www.biolegend.com/ordering#license). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.

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