

TotalSeq™-A0407 anti-human CD36 Antibody

Catalog# / Size	336225 / 10 µg
Clone	5-271
Regulatory Status	RUO
Other Names	GP11b, GPIV
Isotype	Mouse IgG2a, κ
Barcode Sequence	TTCTTTGCCTTGCCA
Description	CD36 is an 85 kD integral membrane glycoprotein, also known as GP11b, or GPIV. It is expressed on various epithelial and endothelial cells as well as erythrocytes, platelets, macrophages/monocytes and some macrophage-derived dendritic cells. CD36 functions as a scavenger receptor, binding thrombospondin, long chain fatty acids, oxidized LDL, collagen type I, IV, and V as well as apoptotic cells. The 5-271 antibody has been reported to be useful for flow cytometry.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human platelets
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™-A 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™-A 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: immunofluorescence2.
Additional Product Notes	<p>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.</p> <p>The barcode flanking sequences are CCTTGGCACCCGAGAATTCCA (PCR handle), and BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA*A*A (capture sequence). B represents either C, G, or</p>

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. Steiner E, *et al.* 2006. *J. Cell Sci.* 119:459.
2. Stewart DA, *et al.* 2012. *Mol. Cancer Res.* 10:727. (IF)

RRID AB_2800892 (BioLegend Cat. No. 336225)

Antigen Details

Structure	Integral membrane protein, CD36 family, single chain glycoprotein, 85-113 kD
Distribution	Expressed in various epithelial and endothelial cells, erythrocytes, platelets, monocytes/macrophages, some macrophage-derived dendritic cells
Function	Scavenger receptor for thrombospondin, long chain fatty acids, anionic phospholipids, oxidized LDL, collagen types I, IV and V. Involved in recognition and phagocytosis of apoptotic cells, cell adhesion.
Ligand/Receptor	Thrombospondin, anionic phospholipids, oxidized LDL, collage types I, IV, and V
Cell Type	Dendritic cells, Endothelial cells, Epithelial cells, Erythrocytes, Macrophages, Monocytes, Platelets
Biology Area	Cell Biology, Immunology, Innate Immunity, Neuroinflammation, Neuroscience
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none">1. Hogg N, <i>et al.</i> 1984. <i>Immunology</i> 53-753.2. Greenwalt DE, <i>et al.</i> 1992. <i>Blood</i> 80:1105.3. Armesilla AL, <i>et al.</i> 1994. <i>J. Biol. Chem.</i> 269:18985.4. Endemann G, <i>et al.</i> 1993. <i>J. Biol. Chem.</i> 268:11811.
Gene ID	948

Related Protocols

[TotalSeq™-A Antibodies and Cell Hashing with 10x Single Cell 3' Reagent Kit v3 3.1 Protocol](#)

Other Formats

Purified anti-human CD36, APC anti-human CD36, APC/Cyanine7 anti-human CD36, FITC anti-human CD36, PE anti-human CD36, Purified anti-human CD36 (Maxpar® Ready), Biotin anti-human CD36, APC/Fire™ 750 anti-human CD36, PE/Cyanine7 anti-human CD36, PerCP/Cyanine5.5 anti-human CD36, TotalSeq™-A0407 anti-human CD36, TotalSeq™-C0407 anti-human CD36, Brilliant Violet 421™ anti-human CD36, Alexa Fluor® 488 anti-human CD36, TotalSeq™-B0407 anti-human CD36, Alexa Fluor® 700 anti-human CD36 Antibody, TotalSeq™-D0407 anti-human CD36

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