

TotalSeq™-B0010 anti-human CD276 (B7-H3) Antibody

Catalog# / Size	331613 / 10 µg
Clone	DCN.70
Regulatory Status	RUO
Other Names	B7RP2
Isotype	Mouse IgG1, κ
Barcode Sequence	GACTGGGAGGGTATT
Description	B7-H3 is a member of the B7 gene family. It has 88% amino acid sequence identity with mouse B7-H3. It is mostly expressed on professional APCs, including B cells, macrophages, and dendritic cells. Its expression on dendritic cells appears to be up-regulated by LPS. B7-H3 protein inhibits T cell activation and cytokine production. It was reported that monoclonal antibody against B7-H3 enhanced T cell proliferation in vitro and led to exacerbated EAE in vivo. Therefore, B7-H3 may be a negative regulator on T cell activation and function.

Product Details

Verified Reactivity	Human
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>
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 GTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCTNNNNNNNNNN (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.</p>

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

RRID AB_2924538 (BioLegend Cat. No. 331613)

Antigen Details

Structure	About 49.7 KD transmembrane protein characterized by extracellular IgV and IgC domains.
Distribution	B7-H3 is expressed on professional APCs, including B cells, dendritic cells, and macrophages. It is reported to express on a minor fraction of CD4+ and CD8+ cells.
Ligand/Receptor	The receptor has not been identified, but it seems to be expressed on activated T cells.
Bioactivity	B7-H3 is a negative regulator of T cell activation and IL-2 production.
Cell Type	Antigen-presenting cells, B cells
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	1. Sun M, <i>et al.</i> 2002. <i>J. Immunology</i> . 168:6294 2. Xu J, <i>et al.</i> 2006. <i>Cellular and Molecular Immunology</i> . 3:235
Gene ID	80381

Related Protocols

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

Other Formats

Purified anti-human CD276 (B7-H3), PE anti-human CD276 (B7-H3), TotalSeq™-A0010 anti-human CD276 (B7-H3), TotalSeq™-D0010 anti-human CD276 (B7-H3), TotalSeq™-C0010 anti-human CD276 (B7-H3), TotalSeq™-B0010 anti-human CD276 (B7-H3)

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