

TotalSeq™-C0409 anti-human CD85g (ILT7) Antibody

Catalog# / Size	326415 / 10 µg
Clone	17G10.2
Regulatory Status	RUO
Other Names	CD85g, immunoglobulin-like transcript 7, LILRA4
Isotype	Mouse IgG1, κ
Barcode Sequence	TGTCAGTTCCTATGA
Description	ILT7 (immunoglobulin-like transcript 7) is a member of leukocyte immunoglobulin-like receptor (LIR or LILR) gene family, also known as CD85g and LILRA4. It contains four extracellular Ig domains. In association with FcεR1γ, ILT7 forms a receptor complex that transduces ITAM-mediated signals. ILT7 is specifically expressed on plasmacytoid dendritic cells (pDCs), but not on myeloid dendritic cells and other peripheral blood leukocytes. ILT7 negatively regulates the innate immune functions of human pDCs. Cross-linking 17G10.2 antibody is able to trigger ILT7 mediated signaling.

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™-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	Additional reported (for the relevant formats) applications include: trigger ILT7 mediated signaling. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 326413 and 326414).
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 CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR</p>

handle), and NNNNNNNNCCCATATAAGA*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. Jensen MA, *et al.* 2013. *Ann Rheum Dis.* 72:596. [PubMed](#).

RRID

AB_2876631 (BioLegend Cat. No. 326415)

Antigen Details

Structure	Associate with FcεR1γ leukocyte immunoglobulin-like receptor gene family
Distribution	Plasmacytoid dendritic cells
Function	Negatively regulates pDC mediated innate immune function
Cell Type	Dendritic cells
Biology Area	Immunology, Innate Immunity
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none">1. Cao W, <i>et al.</i> 2006. <i>J. Exp. Med.</i> 203(6):1399.2. Brown D, <i>et al.</i> 2004. <i>Tissue Antigen.</i> 64:215.3. Rissoan MC, <i>et al.</i> 2002. <i>Blood</i> 100:3295.
Gene ID	23547

Related Protocols

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

Other Formats

PE anti-human CD85g (ILT7), Alexa Fluor® 647 anti-human CD85g (ILT7), Ultra-LEAF™ Purified anti-human CD85g (ILT7), TotalSeq™-C0409 anti-human CD85g (ILT7), TotalSeq™-B0409 anti-human CD85g (ILT7)

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