

## TotalSeq™-B0409 anti-human CD85g (ILT7) Antibody

<b>Catalog# / Size</b>	326417 / 10 µg
<b>Clone</b>	17G10.2
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CD85g, immunoglobulin-like transcript 7, LILRA4
<b>Isotype</b>	Mouse IgG1, κ
<b>Barcode Sequence</b>	TGTCAGTTCCTATGA
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 1 mM EDTA
<b>Preparation</b>	The antibody was purified by chromatography and conjugated with TotalSeq™-B oligomer under optimal conditions.
<b>Concentration</b>	0.5 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">PG - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> and the oligomer sequence is confirmed by sequencing. TotalSeq™-B antibodies are compatible with 10x Genomics Single Cell Gene Expression <a href="#">Solutions</a>.</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>
<b>Application Notes</b>	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).
<b>Additional Product Notes</b>	<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. <a href="#">10x Genomics Chromium System and Reagents</a>) and sequencer (e.g. Illumina analyzers) are required. Please contact <a href="#">technical support</a> for more information, or visit <a href="http://biolegend.com/totalseq">biolegend.com/totalseq</a>.</p> <p>The barcode flanking sequences are</p>

GTGACTGGAGTTCAGACGTGTGCTCTTCCGATCTNNNNNNNNN (PCR handle), and NNNNNNNNGCTTTAAGGCCGTCCTAGC\*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\_2876632 (BioLegend Cat. No. 326417)

## Antigen Details

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<b>Structure</b>	Associate with FcεR1γ leukocyte immunoglobulin-like receptor gene family
<b>Distribution</b>	Plasmacytoid dendritic cells
<b>Function</b>	Negatively regulates pDC mediated innate immune function
<b>Cell Type</b>	Dendritic cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"><li>1. Cao W, <i>et al.</i> 2006. <i>J. Exp. Med.</i> 203(6):1399.</li><li>2. Brown D, <i>et al.</i> 2004. <i>Tissue Antigen.</i> 64:215.</li><li>3. Risoan MC, <i>et al.</i> 2002. <i>Blood</i> 100:3295.</li></ol>
<b>Gene ID</b>	<a href="#">23547</a>

## Related Protocols

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

## Other Formats

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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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