

TotalSeq™-C0879 anti-mouse IL-21R Antibody

Catalog# / Size	131911 / 10 µg
Clone	4A9
Regulatory Status	RUO
Other Names	IL-21 Receptor
Isotype	Rat IgG2a, κ
Barcode Sequence	GATTCCGACAGTAGA
Description	The IL-21R is a member of the cytokine receptor family that closely resembles IL-2R beta and IL-4R alpha. IL-21R is expressed by all mature lymphocytes and up-regulated after B and/or T cell activation, with the highest expression by activated B cells. A functional IL-21R consists of the IL-21R subunit and the common gamma-chain. Upon binding to IL-21, it activates Jak-1, Jak-3, STAT1, STAT3 and STAT 5 transduction pathway.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Rat YB2/0 hybridoma transfectant cell line expressing truncated IL-21R
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	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 .

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.

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.

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 .
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The barcode flanking sequences are CGGAGATGTGTATAAGAGACAGNNNNNNNNNN (PCR 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

(PubMed link indicates BioLegend citation)

1. Jin H, *et al.* 2004. *J. Immunol.* 173:657. (FC)
2. Jin H and Malek T. 2006. *J. Leukocyte Biol.* 80:1416. (FC IP)

RRID AB_2876466 (BioLegend Cat. No. 131911)

Antigen Details

Structure	A member of the class 1 cytokine receptor family. Show significant sequence and structural homology with the IL-4R alpha chain.
Distribution	Express on all mature lymphocytes including B cells, T cells, and NK cells. Reported to be up-regulated upon activation and highest expression on follicular B cells.
Ligand/Receptor	IL-21
Cell Type	B cells, Lymphocytes
Biology Area	Immunology
Molecular Family	CD Molecules, Cytokine/Chemokine Receptors
Antigen References	1.Mehta DS, <i>et al.</i> 2004. <i>Immu Reviews</i> 202:84
Gene ID	60504

Related Protocols

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

Other Formats

Purified anti-mouse IL-21R, PE anti-mouse IL-21R, PE/Cyanine5 anti-mouse IL-21R, APC anti-mouse IL-21R, TotalSeq™-C0879 anti-mouse IL-21R

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