

Purified anti-human CD360 (IL-21R) Antibody

Catalog# / Size	376102 / 100 µg
Clone	W18100A
Regulatory Status	RUO
Other Names	IL-21 Receptor, novel interleukin receptor (NLR)
Isotype	Rat IgG2a, κ
Description	<p>The human interleukin 21 receptor (IL-21R), is a single pass type I membrane protein and a member of the type I cytokine receptor family. Of the type I cytokine receptors, IL-21R exhibits the greatest extracellular homology to the IL-2R beta subunit, i.e., contains one copy of the WSXWS-containing cytokine-binding domain. Intracellular domains of IL-21R include the Box 1 and Box 2 elements which are similar to the IL-9R intracellular region. Upon binding IL-21, the IL-21R forms a heterodimer with the common gamma subunit (CD132) and induces Jak/Stat signaling. IL-21R is expressed on B cells and at various levels on NK and T cells. IL-21 is a potent immunomodulatory cytokine mainly produced by NKT and CD4 T-cells (particularly the inflammatory Th17 subset) and has pleiotropic effects on both innate and adaptive immune responses. These actions include positive effects such as enhanced proliferation of natural killer (NK) cells and cytotoxic T cells that can destroy virally infected or cancerous cells and direct inhibitory effects on the antigen-presenting function of dendritic cells. It can also be proapoptotic for B cells and NK cells. Recent studies have shown that IL-21 is also an autocrine cytokine that potently induces Th17 differentiation and suppresses Foxp3 expression, and serves as a target for treating inflammatory diseases.</p>

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Extracellular domain of hIL-21R
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Preparation	The antibody was purified by affinity chromatography.
Concentration	0.5 mg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.
RRID	AB_2890826 (BioLegend Cat. No. 376102)

Antigen Details

Structure	Single pass type I membrane protein, extracellular WSXWS-containing cytokine-binding domain, intracellular Box1 and Box2 domains
Distribution	B cells, various levels on NK cells, T cells, NKT cells, B cells, DCs, macrophages, non-hematopoietic cells, including keratinocytes and fibroblasts
Ligand/Receptor	IL-21

Antigen References

1. De Leur, *et al.* 2017. *Front Immunol.* 8:306.
2. Cheekatla, *et al.* 2017. *J Immunol.* 199, 2815-2822
3. Zheng, *et al.* 2018. *Oncoimmunology.* 7(12)

Gene ID

[50615](#)

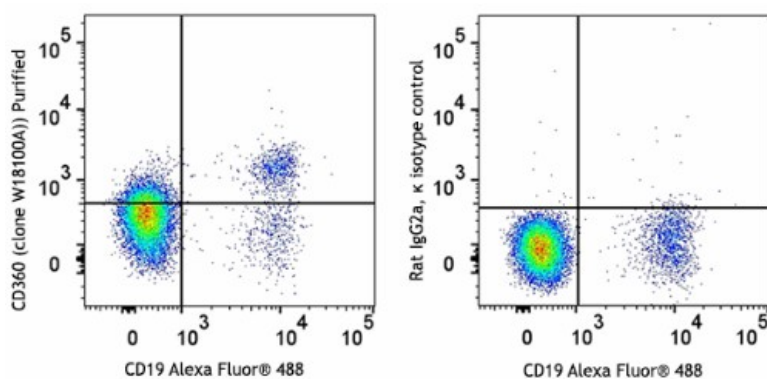
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD360 (IL-21R), PE anti-human CD360 (IL-21R) Antibody, Purified anti-human CD360 (IL-21R) Antibody, Brilliant Violet 421™ anti-human CD360 (IL-21R)

Product Data



Human peripheral blood lymphocytes were stained with purified CD360 (IL-21R) (clone W18100A) (left) or purified rat IgG2a, κ isotype control (right), followed by anti-rat IgG2a PE and CD19 Alexa Fluor® 488.

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