

CD360 (IL-21 Receptor) Monoclonal Antibody (eBio4A9), Biotin, eBioscience™

Product Details	
Size	50 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio4A9
Conjugate	Biotin
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_466573

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	3 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

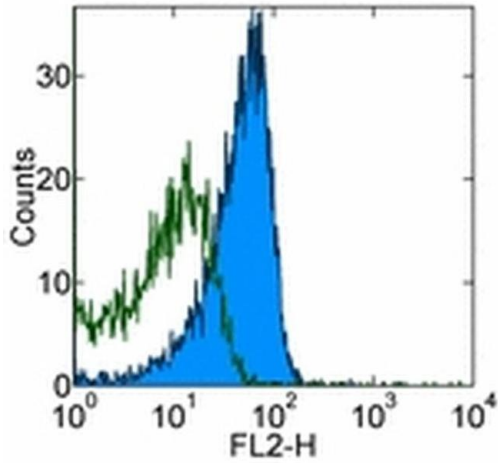
Description: The IL-21 receptor (IL-21R), also known as CD360, combines with the common gamma-chain to form a functional receptor for IL-21. IL-21R is expressed on several lineages including both resting and activated B, T, natural killer and dendritic cells. Binding of its ligand, IL-21, in these cells results in the activation of the Jak/Stat signal transduction pathway. The biological effects of ligand binding are diverse and depend on the cellular context and differentiation state of the cell. In the mouse, IL-21 binding to IL-21R induces the apoptosis of resting and activated B cells, enhances anti-CD3-mediated proliferation of T cells, and inhibits the maturation of dendritic cells and the IL-15-mediated expansion of NK cells.

Applications Reported: This eBio4A9 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio4A9 antibody has been tested by flow cytometric analysis of mouse splenocytes, thymocytes and bone marrow. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells /test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD360 (IL-21 Receptor) Monoclonal Antibody (eBio4A9), Biotin, eBioscience™



CD360 (IL-21 Receptor) Antibody (13-1219-81) in Flow

Staining of C57BL/6 splenocytes with 0.25 µg of Rat IgG2a kappa Isotype Control Biotin (Product # 13-4321-82) (open histogram) or 0.25 µg of Anti-Mouse CD360 (IL-21 Receptor) Biotin (filled histogram) followed by Streptavidin PE (Product # 12-4317-87). Cells in the lymphocyte gate were used for analysis.

4 References

Flow Cytometry (3)

PLoS pathogens

IL-21 restricts virus-driven Treg cell expansion in chronic LCMV infection.

"13-1219 was used in Flow cytometry/Cell sorting to investigate the role of Foxp3+ regulatory T (Treg) cells during viral infections, showing that IL-21 restricts virus-driven Treg cell expansion in chronic LCMV infection."

Authors: Schmitz I,Schneider C,Fröhlich A,Rebel H,Christ D,Leonard WJ,Sparwasser T,Oxenius A,Freigang S,Kopf M

Species
Mouse

Dilution
Not Cited

Year
2013

Journal of immunology (Baltimore, Md. : 1950)

Analysis of the role of IL-21 in development of murine B cell progenitors in the bone marrow.

"13-1219 was used in Flow cytometry/Cell sorting to provide evidence that IL-21R is functional in B cell progenitors and indicate that IL-21 regulates B cell development."

Authors: Simard N,Konforte D,Tran AH,Esufali J,Leonard WJ,Paige CJ

Species
Mouse

Dilution
Not Cited

Year
2011

[View more Flow references on thermofisher.com](#)

Miscellaneous PubMed (1)

Leukemia

PI3K inhibition elicits anti-leukemic effects through Bim-dependent apoptosis.

Authors: Carter MJ,Cox KL,Blakemore SJ,Turaj AH,Oldham RJ,Dahal LN,Tannheimer S,Forconi F,Packham G,Cragg MS

Species
Not Applicable

Dilution
Not Cited

Year
2017

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