Applications:

Applications:

Usage:

Recommended

Product Data Sheet

Purified anti-human CD360 (IL-21R)

Catalog # / Size:	2339010 / 100 μg
Clone:	2G1-K12
Isotype:	Mouse lgG1, к
Immunogen:	IL-21R transfected Ba/F3 cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5

Flow Cytometry

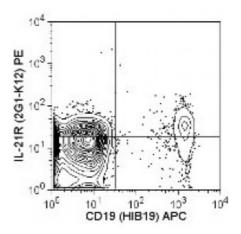
Each lot of this antibody is quality

reagent be titrated for optimal

performance for each application.

control tested by immunofluorescent

staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 2.0 microg per 10⁶ cells in 100 microL volume. It is recommended that the



Human peripheral blood lymphocytes were cultured overnight with (bottom) or without (top) recombinant human IL-21, then surface stained with purified 2G1-K12 conjugated to PE and CD19 APC

HIB19) APC

Application	1. Rodrigues-Bayona B, <i>et al.</i> 2012. <i>J. Immunol.</i> 188:1578. <u>PubMed</u>
References:	

Description: 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 β 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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products. Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com 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.

Antigen	1. Parish-Novak J, <i>et al.</i> 2000. <i>Nature</i> 408:57.
References:	2. Ozaki K, <i>et al.</i> 2000. <i>Proc Natl. Acad. Sci. USA.</i> 97:11439.
	3. Dumoutier L, <i>et al.</i> 2000. <i>Proc Natl. Acad. Sci. USA.</i> 97:10144.