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Datasheet for ABIN2664615 anti-IL21 Receptor antibody

2 Images

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Overview

Quantity:	100 µg
Target:	IL21 Receptor (IL21R)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IL21 Receptor antibody is un-conjugated
Application:	Flow Cytometry (FACS), Cytometry by Time of Flight (CyTOF)

Product Details

Clone:	2G1-K12
lsotype:	lgG1 kappa
Cross-Reactivity:	Cynomolgus, Rhesus Monkey
Purification:	The antibody was purified by affinity chromatography.

Target Details

Target:	IL21 Receptor (IL21R)
Alternative Name:	CD360 (IL21R Products)
Background:	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

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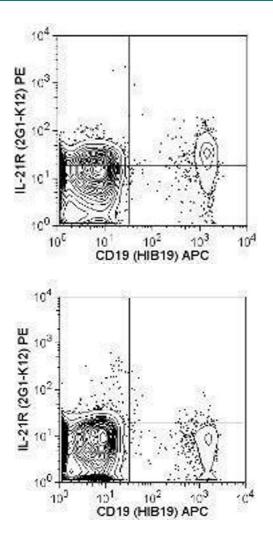
and Box 2 elements which are similar to the IL-9R intracellular region. Upon binding IL-21, the
IL-21R forms a heterodimer with the common gamma subunit (CD132) and induces Jak/Stat
signaling. IL-21R is expressed on B cells and at various levels on NK and T cells. IL-21 is a
potent immunomodulatory cytokine 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.

Pathways:

JAK-STAT Signaling

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Concentration:	0.5 mg/mL
Buffer:	Phosphate-buffered solution, pH 7.2, containing 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	The antibody solution should be stored undiluted between 2°C and 8°C.



Flow Cytometry

Image 1.

Flow Cytometry

Image 2.

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