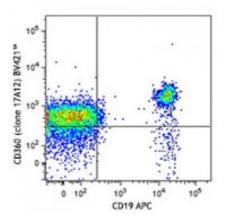
Product Data Sheet

Brilliant Violet 421[™] anti-human CD360 (IL-21R)

Catalog # / Size:	2397545 / 25 tests 2397550 / 100 tests
Clone:	17A12
Isotype:	Mouse IgG1, κ
Immunogen:	Human IL-21R expressing mouse M1- T22 cell line.
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 421 [™] and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD19 APC and CD360 (IL-21R) Brilliant Violet[™] 421 (clone 17A12, top) or mouse IgG1, κ Brilliant Violet[™] 421 isotype control (bottom).

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Applications:

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Applications:	Flow Cytometry	e Co				
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 ≤ 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.	Mouse IgG1, x BV421" Isotype Cont	0 102	10 ⁻³ CD19 AF	10 ⁴	105
	Brilliant Violet 421 [™] excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421 [™] is a trademark of Sirigen Group Ltd.					
Application Notes:	Additional reported applications (for the relevant formats) include: immunofluorescent surface staining1.					
Application References:	1. Bannantine J, <i>et al.</i> 2011. <i>Front Microbio</i> .	<i>l.</i> 2:163	. (IF)			
Description	Human interloukin 21 recentor (II, 21P) is		nass tyr		mbran	

Description: 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 greatest extracellular homology to the IL-2R β subunit (i.e., it contains one copy of the WSXWS-containing cytokine-binding domain).

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 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, 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, and can be proapoptotic for B cells and NK cells. 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 References: 1. Parrish-Novak J, et al. 2002. J. Leukocyte Biol. 72:856.

- 2. de Totero D, *et al.* 2006. *Blood* 107:3708. 3. Asao H, *et al.* 2001. *J. Immunol.* 167:1.
- 4. Davis ID,