

Human IL-21 R Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 152512

Catalog Number: FAB9911R 100 µg

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human IL-21 R in direct ELISAs. In direct ELISAs, this antibody does not cross-react with recombinant human (rh)IL-2 Rβ or rmIL-21 R.		
Source	Monoclonal Mouse IgG ₁ Clone # 152512		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-21 R Cys20-Pro236 Accession # Q9HBE5		
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sh (SDS) for additional information and handling instructions.		

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 μg/10 ⁶ cells	Human whole blood CD19 ⁺ B cells
PREPARATION AND	TORAGE	

Stability & Storage

BACKGROUND

APPLICATIONS

Interleukin-21 (IL-21) and its receptor play an important role in the regulation of the immune system. IL-21 R, also called NILR (novel interleukin receptor), is a type I cytokine receptor with 4 conserved cysteine residues and an extracellular WSXWS motif. It is most closely related to IL-2 R β , IL-4 R α , and IL-9 R. The gene for human IL-21 R has been mapped to chromosome 16p12. Human IL-21 R is a 538 amino acid (aa) residue type I transmembrane protein with a 19 aa signal peptide, a 217 aa extracellular domain, a 19 aa transmembrane domain, and a 283 aa cytoplasmic domain. IL-21 R is expressed on lymphoid tissues, peripheral B cells, and cell lines of T, B, and NK lineage. The common γ chain (γ _c) is required for IL-21 R signaling. The IL-21/IL-21 R interaction appears to play an important role in B and T cell proliferation after antigen stimulation and NK cell maturation.

References:

- 1. Parrish-Novak, et al. (2000) Nature 408:57.
- 2. Ozaki, K. et al. (2000) Proc. Natl. Acad. Sci. USA 97:11439.
- 3. Dumoutier, L. et al. (2000) Proc. Natl. Acad. Sci. USA 97:10144.

Protect from light. Do not freeze.

• 12 months from date of receipt, 2 to 8 °C as supplied.

4. Asao, H. et al. (2001) J. Immunol. 167:1.

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