

SP1318P**Polyclonal Antibody to Interleukin-21 receptor / IL21R (20-32) - Aff - Purified**

Alternate names:	IL-21R, IL21 receptor, NILR, Novel interleukin receptor
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	IL21 Receptor is a cytokine receptor for interleukin 21 (IL21). It belongs to the type I cytokine receptors, and has been shown to form a heterodimeric receptor complex with the common gamma-chain, a receptor subunit also shared by the receptors for interleukin 2 (IL2) and interleukin 5 (IL5). This receptor transduces the growth promoting signal of IL21, and is important for the proliferation and differentiation of T cells, B cells, and natural killer (NK) cells. The ligand binding of this receptor leads to the activation of multiple downstream signaling molecules, including JAK1, JAK3, STAT1, and STAT3. Knockout studies of a similar gene in mouse suggest a role for this gene in regulating immunoglobulin production. Three alternatively spliced transcript variants encoding the same protein have been described.
Uniprot ID:	Q9HBE5
NCBI:	NP_068570.1
GenelD:	50615
Host:	Rabbit
Immunogen:	Synthetic peptide corresponding to amino acids 20-32 of human IL-21 receptor. AA Sequence: CPDLVCYTDYLT
Format:	State: Liquid purified IgG Purification: Affinity chromatography Buffer System: PBS containing 0.02% Sodium Azide
Applications:	Western Blot. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises an epitope within the N-terminal region of interleukin -21 receptor. The antibody detects a band of approximately 60kD in western blot analysis of human raji cells. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

1. Parrish-Novak J, Dillon SR, Nelson A, Hammond A, Sprecher C, Gross JA, et al. Interleukin 21 and its receptor are involved in NK cell expansion and regulation of lymphocyte function. *Nature*. 2000 Nov 2;408(6808):57-63. PubMed PMID: 11081504.

Pictures:

Western blot analysis of IL-21R expression in human Raji cell lysate with SP1318P.

