

## Product datasheet for **AP01130BT-N**

### IL21 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	<b>Direct ELISA:</b> To detect Human IL-21 by Direct ELISA (using 100 µl/well antibody solution) a concentration of ~1.0 µg/ml of this antibody is required. This Biotin conjugated Antibody allows the detection of at least 0.2-0.4 ng/well of recombinant Human IL-21. <b>Sandwich ELISA:</b> To detect Human IL-21 by Sandwich ELISA (using 100 µl/well antibody solution) a concentration of 0.25-1.0 µg/ml of this antibody is required. This Biotin conjugated Antibody, in conjunction with Polyclonal Anti-Human IL-21 (AP01130PU) as a capture antibody, allows the detection of at least 0.2-0.4 ng/well of recombinant Human IL-21. <b>Western Blot:</b> To detect Human IL-21 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant Human IL-21 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Highly pure (> 98%) E.coli derived recombinant human IL-21.
Specificity:	This antibody detects Interleukin-21.
Formulation:	PBS, pH 7.2 without preservatives. Label: Biotin State: Lyophilized (Sterile filtered) Ig fraction.
Reconstitution Method:	Centrifuge vial prior to opening. Restore in sterile PBS containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Purification:	Affinity Chromatography
Conjugation:	Biotin
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.



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**Stability:** Shelf life: one year from despatch.

**Gene Name:** interleukin 21

**Database Link:** [Entrez Gene 59067 Human Q9HBE4](#)

**Background:** A novel cytokine related to IL2 and IL15 was recently identified and designated IL21. IL21 has been found to be a powerful growth factor for naive B cells. The receptor for IL21 (IL21R, also termed NILR for novel Interleukin receptor) is a new member of the class I cytokine receptor family. IL21R forms a complex with the common cytokine receptor g chain, gc, and mediates IL21 signaling. Both IL21R and the gc are necessary for the IL21 function. IL21 and its receptor activate JAKSTAT signaling pathway. IL21R is expressed in spleen, thymus, natural killer (NK), T and B cell lines. IL21 plays a role in the proliferation and maturation of NK, B and T cell populations.

**Synonyms:** IL-21, Za11