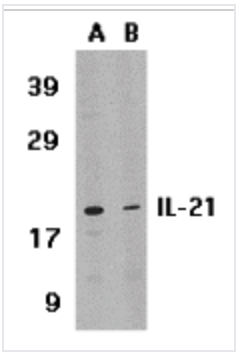
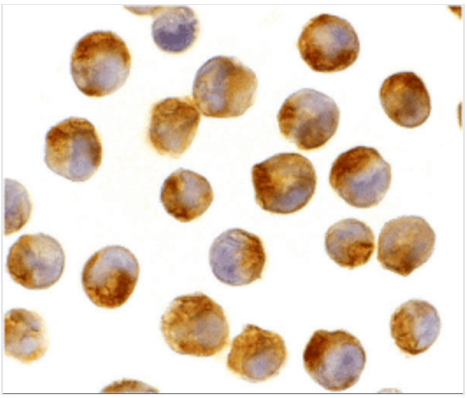
Il-21 (IL21) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IL-21 (IL21), Polyclonal Antibody
Full Product Name	IL-21 Antibody
Product Gene Name	anti-IL21 antibody
Product Synonym Names	IL-21; Za11; IL-21; Interleukin-21; Za11; interleukin 21
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	IL-21 Antibody is affinity chromatography purified via peptide column.
Preparation and Storage	IL-21 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Antibody/Peptide Pairs	IL-21 peptide (MBS152692) is used for blocking the activity of IL-21 antibody (MBS151281)
Molecular Weight	18 kDa
OMIM	gene 615767
3D Structure	ModBase 3D Structure for Q9HBE4
Conjugate	Unconjugated
Immunogen	IL-21 antibody was raised against a synthetic peptide corresponding to 15 amino acids near the center of human IL-21 precursor.
Buffer	IL-21 Antibody is supplied in PBS containing 0.02% sodium azide.
Applications Tested/Suitable for anti-IL21 antibody	ELISA (EIA), Western Blot (WB), Immunocytochemistry (ICC)
Application Notes for anti-IL21 antibody	IL-21 antibody can be used for detection of IL-21 by Western blot at 1 mug/mL. An approximately 18 kDa band can be detected. Antibody can also be used for immunocytochemistry starting at 2 mug/mL.
Related Product Information for anti-IL21 antibody	IL-21 Antibody: A novel cytokine was recently identified in human and mouse and designated IL-21, which has significant homology to IL-2, IL-4, and IL-15. The receptor for IL-21 (IL-21R, also termed NILR for novel Interleukin receptor) is a new member of the class I cytokine receptor family. IL-21R forms a complex with the common cytokine receptor gamma chain, gammac, and mediates IL-21 signaling. IL-21 and its receptor activate JAK-STAT signaling pathway. IL-21 is expressed in activated T cells, and HL-60 and THP-1 cell lines. IL-21 plays a role in the proliferation and maturation of NK, B and T cell populations.
Other Notes	Small volumes of anti-IL21 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IL21 purchase	MBS151281 is an antibody targeting IL21. Also known as IL-21 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IL21 antibody
Western blot analysis of IL-21 expression in HL-60 cell lysate in (A) the absence or (B) the presence of blocking peptide with IL-21 antibody at 1 ?g /ml.



Immunocytochemistry (IHC) of anti-IL21 antibody
Immunocytochemistry of IL-21 in K562 cells with IL-21 antibody at 2 ?g/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL21. It may not necessarily be applicable to this product.

NCBI GI #	11141875
NCBI GeneID	59067
NCBI Accession #	NP_068575
UniProt Primary Accession #	Q9HBE4
UniProt Secondary Accession #	A5J0L4
UniProt Related Accession #	Q9HBE4
GenBank Nucleotide #	NM_021803.3
NCBI Official Full Name	interleukin-21 isoform 1
NCBI Official Synonym Full Names	interleukin 21
NCBI Official Symbol	IL21
NCBI Official Synonym Symbols	Za11; IL-21; CVID11
UniProt Protein Name	Interleukin-21
UniProt Synonym Protein Names	Za11
Protein Family	Interleukin
UniProt Gene Name	IL21
UniProt Synonym Gene Names	IL-21
UniProt Entry Name	IL21_HUMAN
NCBI Protein Information	interleukin-21; interleukin-21 isoform
NCBI Summary for IL21	This gene encodes a member of the common-gamma chain family of cytokines with immunoregulatory activity. The encoded protein plays a role in both the innate and adaptive immune responses by inducing the differentiation, proliferation and activity of multiple target cells including macrophages, natural killer cells, B cells and cytotoxic T cells. Dysregulation of this gene plays a role in multiple immune-mediated diseases including lupus, psoriasis and chronic inflammatory diseases. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]

UniProt Comments for IL21	IL21: Cytokine with immunoregulatory activity. May promote the transition between innate and adaptive immunity. Induces the production of IgG(1) and IgG(3) in B-cells. May play a role in proliferation and maturation of natural killer (NK) cells in synergy with IL15. May regulate proliferation of mature B- and T-cells in response to activating stimuli. In synergy with IL15 and IL18 stimulates interferon gamma production in T-cells and NK cells. During T-cell mediated immune response may inhibit dendritic cells (DC) activation and maturation. Belongs to the IL-15/IL-21 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Cytokine; Secreted; Cell development/differentiation; Apoptosis Chromosomal Location of Human Ortholog: 4q26-q27 Cellular Component: extracellular space Molecular Function: hematopoietin/interferon-class (D200-domain) cytokine receptor binding; interleukin-2 receptor binding; cytokine activity Biological Process: positive regulation of interleukin-17 production; positive regulation of natural killer cell cytokine production; cell maturation; signal transduction; positive regulation of natural killer cell mediated cytotoxicity; positive regulation of interleukin-10 production; positive regulation of tyrosine phosphorylation of Stat3 protein; positive regulation of natural killer cell differentiation; positive regulation of tyrosine phosphorylation of Stat1 protein; positive regulation of tissue remodeling; positive regulation of cell proliferation; positive regulation of B cell proliferation; immune response; positive regulation of T cell proliferation; positive regulation of interferon-gamma biosynthetic process; positive regulation of inflammatory response Disease: Immunodeficiency, Common Variable, 11
Research Articles on IL21	**1.** IL-21 signals through the STAT-3 and STAT- 5b signaling pathway in the CIK cell pool.
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