Interleukin 2 (IL2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Interleukin 2 (IL2), Polyclonal Antibody
Full Product Name	APC_Cy7-Linked Polyclonal Antibody to Interleukin 2 (IL2)
Product Gene Name	anti-IL2 antibody
Product Synonym Names	Interleukin 2; TCGF; Lymphokine; T-Cell Growth Factor; Aldesleukin
Immunogen Sequence	Ala21~Thr1 53
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	>=0.1mg/mL (Please refer to the vial label for the specific concentration.) (lot specific)
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, -20 degree C for 12 months
Matching Pairs	Unconjugated Antibody: IL2 (MBS2032579) APC-CY7 Conjugated Antibody: IL2 (MBS2163427)
Matching Pairs	APC-CY7 Conjugated Antibody: IL2 (MBS2163427) Immunogen: IL2 (MBS2086675)
Molecular Weight	17,628 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (123372625..123377650, complement). Location: 4q26-q27
OMIM	147680
3D Structure	ModBase 3D Structure for P60568
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	APC Cy7
Product Categories/Family for anti-IL2 antibody	Polyclonal Antibodies (Primary Abs); Primary, APC_Cy7-conjugated; Cytokine; Infection immunity
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-IL2 antibody	Western Blot (WB)
Application Notes for anti-IL2 antibody	WB: 0.01-2ug/mL
Related Product Information for anti-IL2 antibody	MBS2163427 is an antibody targeting IL2. Also known as APC_Cy7-Linked Polyclonal Antibody to Interleukin 2 (IL2). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-IL2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IL2. It may not necessarily be applicable to this product.

NCBI GI #	28178861
NCBI GeneID	3558
NCBI Accession #	NP_000577.2
UniProt Primary Accession #	P60568
UniProt Secondary Accession #	P01585
UniProt Related Accession #	P60568
GenBank Nucleotide #	NM_000586.3
NCBI Official Full Name	interleukin-2
NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	IL2
NCBI Official Synonym Symbols	IL-2; TCGF; lymphokine
UniProt Protein Name	Interleukin-2
UniProt Synonym Protein Names	T-cell growth factor
Protein Family	Interleukin
UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; TCGF
UniProt Entry Name	IL2_HUMAN
NCBI Protein Information	interleukin-2; aldesleukin; T cell growth factor; involved in regulation of T-cell clonal expansion
NCBI Summary for IL2	The protein encoded by this gene is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. [provided by RefSeq, Jul 2008]

UniProt Comments for IL2	IL2: Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine- activated killer cells, natural killer cells, and glioma cells. A chromosomal aberration involving IL2 is found in a form of T-cell acute lymphoblastic leukemia (T-ALL). Translocation t(4;16)(q26;p13) with involves TNFRSF17. Belongs to the IL-2 family. Protein type: Oncoprotein; Cytokine; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q26-q27 Cellular Component: extracellular space; extracellular region Molecular Function: growth factor activity; interleukin-2 receptor binding; kinase activator activity; cytokine activity; glycosphingolipid binding; carbohydrate binding; kappa-type opioid receptor binding Biological Process: positive regulation of isotype switching to IgG isotypes; negative regulation of heart contraction; natural killer cell activation; positive regulation of activated T cell proliferation; negative regulation of lymphocyte proliferation; elevation of cytosolic calcium ion concentration; cell-cell signaling; negative regulation of protein amino acid phosphorylation; protein kinase C activation; positive regulation of cell proliferation; positive regulation of B cell proliferation; cell adhesion; T cell differentiation; positive regulation of interleukin-17 production; regulation of T cell homeostatic proliferation; positive regulation of regulatory T cell differentiation; positive regulation of immunoglobulin secretion; positive regulation of cell growth; positive regulation of tissue remodeling; positive regulation of interferon-gamma production; positive regulation of tyrosine phosphorylation of Stat5 protein; negative regulation of inflammatory response; immune response; positive regulation of transcription from RNA polymerase II promoter; negative regulation of B cell apoptosis; positive regulation of inflammatory response; negative regulation of apoptosis
Research Articles on IL2	**1.** Intracellular expression and soluble production of interferon-(IFN)-gamma and interleukin-(IL)-2 as predictive biomarkers of acute rejection (AR) and personal drug response.
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