Interleukin 2 (IL2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Interleukin 2 (IL2), Polyclonal Antibody
Full Product Name	Biotin-Linked Polyclonal Antibody to Interleukin 2 (IL2)
Product Gene Name	anti-IL2 antibody
Product Synonym Names	TCGF; Lymphokine; T-Cell Growth Factor; Aldesleukin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Mouse
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: IL2 (MBS2027192) Biotin Conjugated Antibody: IL2 (MBS2091476)
Matching Pairs	Biotin Conjugated Antibody: IL2 (MBS2091476) Immunogen: IL2 (MBS2031087)
Molecular Weight	17,628 Da
OMIM	X00695 Genomic DNA
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	Biotin
Cross Reactivity	Mouse
Immunogen	IL2 (Val10~Gln169)
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-IL2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-IL2 antibody	MBS2091476 is an antibody targeting IL2. Also known as Biotin-Linked Polyclonal Antibody to Interleukin 2 (IL2). Reactive in Mouse. 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; TCGF; INN: Aldesleukin
Protein Family	Interleukin
UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; TCGF
NCBI Protein Information	interleukin-2
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: Cytokine; Oncoprotein; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q27 Cellular Component: extracellular region; extracellular space; intracellular Molecular Function: carbohydrate binding; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; kappa-type opioid receptor binding; kinase activator activity; Ras guanyl-nucleotide exchange factor activity Biological Process: adaptive immune response; cell adhesion; cell-cell signaling; elevation of cytosolic calcium ion concentration; immune response; leukocyte activation involved in immune response; MAPK cascade; natural killer cell activation; negative regulation of apoptosis; negative regulation of B cell apoptotic process; negative regulation of heart contraction; negative regulation of inflammatory response; negative regulation of lymphocyte proliferation; negative regulation of protein phosphorylation; positive regulation of activated T cell proliferation; positive regulation of B cell proliferation; positive regulation of cell growth; positive regulation of cell proliferation; positive regulation of GTPase activity; positive regulation of immunoglobulin secretion; positive regulation of inflammatory response; positive regulation of interferon-gamma production; positive regulation of interleukin-17 production; positive regulation of isotype switching to IgG isotypes; positive regulation of regulatory T cell differentiation; positive regulation of tissue remodeling; positive regulation of transcription from RNA polymerase II promoter; positive regulation of tyrosine phosphorylation of STAT protein; protein kinase C-activating G-protein coupled receptor signaling pathway; regulation of regulatory T cell differentiation; regulation of T cell homeostatic proliferation; response to ethanol; T cell differentiation
Research Articles on IL2	**1.** Results showed that plasma and mRNA levels of IL-2, IFN-gamma, IL-4, and IL-17A in primary immune thrombocytopenia patients did not change significantly after TPO-RA treatment, whereas TGF-beta1 levels increased remarkably.

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