IL2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	IL2, Monoclonal Antibody
Full Product Name	IL2 (Interleukin 2, IL-2, TCGF, lymphokine) (HRP)
Product Gene Name	anti-IL2 antibody
Product Synonym Names	Interleukin 2; IL-2; TCGF; lymphokine
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3C8
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with horseradish peroxidase (HRP).
Purity/Purification	Purified
Specificity	Recognizes IL2.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor 20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodiu and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	17,628 Da
OMIM	147680
3D Structure	ModBase 3D Structure for P60568
Immunogen	IL2 (NP_000577, 21aa-153aa) recombinant protein.
Immunogen Sequence	MAPTSSSTKKTQLQLEHLLLDLQMILNGINNYKNPKLTRMLTFKFYMPKKATELKHLQCLEEELKPLEEVLNLAQSKNFHLRPRDLISNINVIVLELKGSETTF
Conjugate	HRP
Product Categories/Family for anti-IL2 antibody	Antibodies; Interleukin
Applications Tested/Suitable for anti-IL2 antibody	ELISA (EIA)
Application Notes for anti-IL2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-IL2 antibody	MBS6180493 is an antibody targeting IL2. Also known as IL2 (Interleukin 2, IL-2, TCGF, lymphokine) (HRP). Host: Mouse.

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 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
UniProt Primary Accession #	P60568
UniProt Secondary Accession #	P01585
UniProt Related Accession #	P60568
GenBank Nucleotide #	NP_000577.2
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
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.** Data reported that let-7i upregulates IL-2 expression by targeting the promoter TATA-box region, which functions as a positive regulator. In HIV-1 infection, the expression of let-7i in CD4(+) T cells is decreased by attenuating its promoter activity. The reduced let-7i miRNA expression led to a decline in IL-2 levels which contributes to CD4(+) T cells death.
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