IL-2 Antibody – Rat

PRODUCT OVERVIEW

Product Name	IL-2, Antibody
Full Product Name	AF/LE Purified Anti-Mouse IL-2 Antibody
Product Gene Name	anti-IL-2 antibody
Product Synonym Names	Interleukin-2, IL-2, T-cell growth factor, TCGF, IL2
Isotype	Mouse IgG1, kappa
Host	Rat
Species Reactivity	Mouse
Form/Format	0.2 um filtered in PBS, pH7.2. Azide Free (AF)/Low Endotoxin (LE): Contains no stabilizers or preservatives. Endotoxin level is < 2 EU/mg as Determined by LAL gel clotting assay.
Concentration	0.5mg/mL (lot specific)
Preparation and Storage	Store at 2~8 degree C. Do not freeze.
Molecular Weight	43,000
Chromosome Location	Chromosome: 3; NC_000069.6 (37120713..37125954, complement). Location: 3 B-C; 3 18.3 cM
3D Structure	ModBase 3D Structure for P04351
Conjugation	None (Purified antibody-Azide Free/Low endotoxin)
Product Categories/Family for anti-IL-2 antibody	Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-IL-2 antibody	Neutralization (NEUT), Stimulation (Stim), Immunochemistry (IC), Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-IL-2 antibody	MBS4516274 is an antibody targeting IL-2. Also known as AF/LE Purified Anti-Mouse IL-2 Antibody. Reactive in Mouse. Host: Rat.
Other Notes	Small volumes of anti-IL-2 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 IL-2. It may not necessarily be applicable to this product.

NCBI GI #	7110653
NCBI GeneID	16183
NCBI Accession #	NP_032392.1
UniProt Primary Accession #	P04351
UniProt Secondary Accession #	P97945; Q791T3
UniProt Related Accession #	P04351

GenBank Nucleotide #	NM_008366.3
NCBI Official Full Name	interleukin-2
NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	Il2
NCBI Official Synonym Symbols	Il-2
UniProt Protein Name	Interleukin-2
UniProt Synonym Protein Names	T-cell growth factor
UniProt Gene Name	Il2
UniProt Synonym Gene Names	Il-2; IL-2; TCGF
UniProt Entry Name	IL2_MOUSE
NCBI Protein Information	interleukin-2; TCGF; T-cell growth factor
UniProt Comments for IL-2	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: Secreted, signal peptide; Secreted; Oncoprotein; Cytokine Cellular Component: extracellular space; cell; extracellular region; cytosol Molecular Function: growth factor activity; interleukin-2 receptor binding; cytokine activity; carbohydrate binding; glycosphingolipid binding; kappa-type opioid receptor binding Biological Process: positive regulation of interleukin-17 production; positive regulation of isotype switching to IgG isotypes; regulation of T cell homeostatic proliferation; positive regulation of regulatory T cell differentiation; negative regulation of heart contraction; immune system process; positive regulation of immunoglobulin secretion; positive regulation of activated T cell proliferation; negative regulation of lymphocyte proliferation; G-protein coupled receptor protein signaling pathway; elevation of cytosolic calcium ion concentration; positive regulation of interferon-gamma production; negative regulation of protein amino acid phosphorylation; positive regulation of T cell differentiation; positive regulation of tyrosine phosphorylation of Stat5 protein; negative regulation of inflammatory response; protein kinase C activation; positive regulation of B cell proliferation; positive regulation of T cell proliferation; positive regulation of transcription from RNA polymerase II promoter; immune response; positive regulation of protein amino acid phosphorylation; negative regulation of B cell apoptosis
Research Articles on IL-2	**1.** IL-2 signaling of CD4+ T cells play a critical role in multiple phases of CD8+ cytotoxic T lymphocytes responses following adenovirus vaccination.
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