

Datasheet for ABIN7092734
IL-2 Protein (AA 21-153) (mFc Tag)



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3 Images

Overview

Quantity:	100 µg
Target:	IL-2 (IL2)
Protein Characteristics:	AA 21-153
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-2 protein is labelled with mFc Tag.

Product Details

Purpose:	Recombinant Human IL2 with C-terminal mouse Fc tag
Specificity:	IL2 (Ala21-Thr153) mFc (Pro99-Lys330)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	IL-2 (IL2)
Alternative Name:	IL2 (IL2 Products)
Background:	This gene is a member of the interleukin 2 (IL2) cytokine subfamily which includes IL4, IL7, IL9,

Target Details

IL15, IL21, erythropoietin, and thrombopoietin. The protein encoded by this gene is a secreted cytokine produced by activated CD4 and CD8 T lymphocytes, that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine (IL2R) is a heterotrimeric protein complex whose gamma chain is also shared by IL4 and 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, Sep 2020]

Molecular Weight: predicted molecular mass of 41.5 kDa after removal of the signal peptide. The apparent molecular mass of IL2-mFc is 35-55 kDa due to glycosylation.

UniProt: [P60568](#)

Pathways: [JAK-STAT Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Activated T Cell Proliferation](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

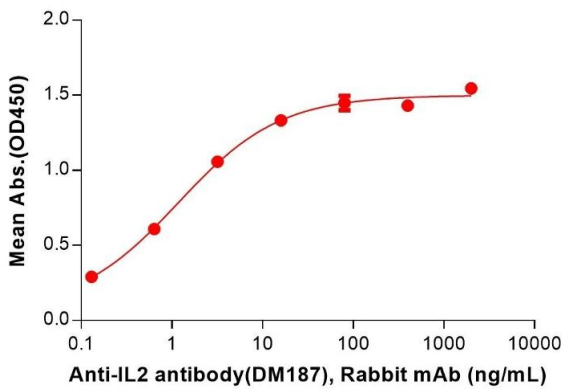
Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months

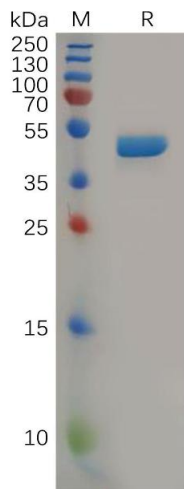
Human IL2, mFc Tagged protein ELISA

0.2 µg of Human IL2, mFc tagged protein per well



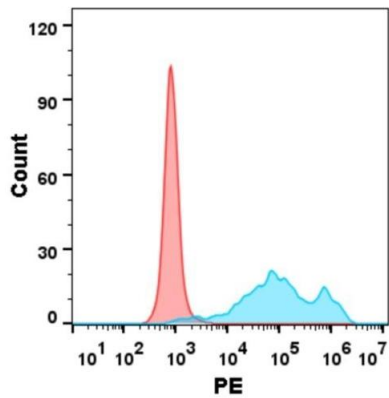
ELISA

Image 1. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human IL2 Protein, mFc Tag (ABIN7092734, ABIN7272282 and ABIN7272283) can bind Anti-IL2 antibody(DM187), Rabbit mAb in a linear range of 0.13-3.20 ng/mL.



SDS-PAGE

Image 2. Human IL2 Protein, mFc Tag on SDS-PAGE under reducing condition.



Flow Cytometry

Image 3. Flow cytometry analysis with 1 µg/mL Human IL2 Protein, mFc tag (ABIN7092734, ABIN7272282 and ABIN7272283) on Expi293 cells transfected with human IL2RB (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).