
Anti-Human IL-2 Functional Grade Purified

Catalog Number: 16-7027

Also known as: Interleukin-2

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Human IL-2 Functional Grade Purified



Catalog Number: 16-7027

Clone: AB12-3G4

Concentration: 1 mg/mL

Host/Isotype: Mouse IgG2a, kappa

Handling Conditions: Use in sterile environment.

Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.



Formulation: aqueous buffer, no sodium azide

Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

This AB12-3G4 monoclonal antibody reacts with and inhibits the bioactivity of human IL-2. IL-2 is a 15 kDa cytokine expressed by B cells, T cells, and dendritic cells. IL-2 signals via a heterotrimeric receptor (CD25) and results in the activation of Jak/STAT pathways. IL-2 plays a critical role in the proliferation, activation, and differentiation of T cells. The development of CD4+CD25+ regulatory T cells is especially dependent on the presence of IL-2, making it an important immunoregulatory cytokine.

Applications Reported

This AB12-3G4 monoclonal antibody inhibits the bioactivity of human IL-2.

Applications Tested

The ND50 of AB12-3G4, as determined by the neutralization of Human IL-2-induced proliferation of the CTLL-2 cell line, is less than or equal to 60 ng/mL in the presence of 10 ng/mL Human IL-2 Recombinant Protein. The neutralization dose of this antibody will vary depending on cell type, assay method, and cytokine concentration.

References

Chen Q, Kim YC, Laurence A, Punkosdy GA, Shevach EM. IL-2 controls the stability of Foxp3 expression in TGF-beta-induced Foxp3+ T cells in vivo. J Immunol. 2011 Jun 1;186(11):6329-37.

Malek TR. The main function of IL-2 is to promote the development of T regulatory cells. J Leukoc Biol. 2003 Dec;74(6):961-5. .

Smith SE, Warren GD, Thong YH, McCormack JG. Suppression of monocyte and neutrophil function by recombinant IL-2. Mediators Inflamm. 1993;2(1):59-65.

Related Products

14-8029 Human IL-2 Recombinant Protein

16-4724 Mouse IgG2a K Isotype Control Functional Grade Purified