

IL-2 Monoclonal Antibody (AB12-3G4), Functional Grade, eBioscience™

Product Details

Size	500 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	AB12-3G4
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage conditions	4° C
RRID	AB_10854114

Applications	Tested Dilution	Publications
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	1 Publication

Product Specific Information

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.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

1 Reference

Functional Assay (1)

JCI insight	Year 2019
Blocking MHC class II on human endothelium mitigates acute rejection.	Species Human
"16-7027 was used in an ELISA assay to establish the immune cell network involved in acute allograft rejection in humans and identify targets for minimising this rejection."	
Authors: Abrahimi P,Qin L,Chang WG,Bothwell AL,Tellides G,Saltzman WM,Pober JS	

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