

IL-2 Monoclonal Antibody (S4B6), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	S4B6
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_2573099

Applications	Tested Dilution	Publications
Neutralization (Neu)	-	1 Publication
Functional Assay (FN)	Assay-Dependent	2 Publications

Product Specific Information

Description: The S4B6 monoclonal antibody reacts with mouse interleukin-2 (IL-2). Mouse IL-2 is a 17 kDa factor produced mainly by activated CD4+ T cells. IL-2 induces cell cycle progression of resting cells in an antigen non-specific manner and allows clonal expansion of activated T cells. IL-2 also acts on activated B cells, monocytes, NK cells, LAK cells, and on oligodendroglial cells in vitro. In addition, IL-2 plays a role in hematopoiesis, tumor surveillance and anti-inflammatory reactions, making this cytokine a central regulator of the immune response. Non-glycosylated IL-2 is biologically active.

The S4B6 antibody has been reported to have neutralizing activity. Studies have demonstrated that the S4B6 antibody binds a different epitope of IL-2 than JES6-1A12. In mice, S4B6 renders IL-2 incapable of binding to the high affinity IL-2R but maintains its ability to interact with the low affinity receptor. However, IL-2 bound to JES6-1A12 can still interact with the high affinity IL-2R.

Applications Reported: The S4B6 antibody has been reported for use in functional assays.

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.

3 References

Neutralization (1)

<p>Nature immunology</p> <p>Antiapoptotic Mcl-1 is critical for the survival and niche-filling capacity of Foxp3 regulatory T cells.</p> <p>"16-7020 was used in Neutralization experiments to study the regulation of the Foxp3+ T cell pool by proliferation and apoptosis, and specifically the role of antiapoptotic Mcl-1 in T cell survival."</p> <p>Authors: Pierson W,Cauwe B,Policheni A,Schlenner SM,Franckaert D,Berges J,Humblet-Baron S,Schönefeldt S,Herold MJ,Hildeman D,Strasser A,Bouillet P,Lu LF,Matthys P,Freitas AA,Luther RJ,Weaver CT,Dooley J,Gray DH,Liston A</p>	<p>Year 2013</p> <p>Species Mouse</p>
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Functional Assay (2)

<p>Oncoimmunology</p> <p>Overproduction of IL-2 by Cbl-b deficient CD4⁺ T cells provides resistance against regulatory T cells.</p> <p>"16-7020 was used in Functional assays to investigate the role of Cbl-b, an E3 ubiquitin ligase, in establishing resistance to Treg-mediated suppression."</p> <p>Authors: Han S,Chung DC,St Paul M,Liu ZQ,Garcia-Batres C,Elford AR,Tran CW,Chapatte L,Ohashi PS</p>	<p>Year 2021</p> <p>Species Mouse</p>
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<p>The Journal of biological chemistry</p> <p>Glucosamine Modulates T Cell Differentiation through Down-regulating N-Linked Glycosylation of CD25.</p> <p>"16-7020 was used in Functional assays to suggest that glucosamine may be an important modulator of T cell differentiation and immune homeostasis."</p> <p>Authors: Chien MW,Lin MH,Huang SH,Fu SH,Hsu CY,Yen BL,Chen JT,Chang DM,Sytwu HK</p>	<p>Year 2015</p> <p>Species Mouse</p>
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