

Product Data Sheet

LEAF™ Purified anti-mouse IL-2

Catalog # / Size: 503704 / 500 µg

Clone: JES6-1A12

Isotype: Rat IgG2a, κ

Immunogen: *E. coli*-expressed, recombinant mouse IL-2

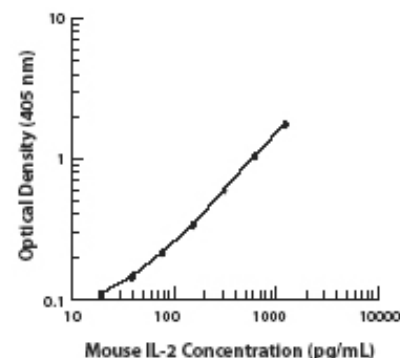
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The IL-2 antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture - *Quality tested*
 ELISPOT Capture, Neut, IP, WB - *Reported in the literature*

Recommended Usage: Each lot of this IL-2 antibody is quality control tested by ELISA assay. For ELISA capture applications, a concentration range of 0.5-2.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-2 recombinant protein ranging from 250 to 2 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA Capture¹⁻³ or ELISPOT Capture⁴⁻⁶:** The purified JES6-1A12 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated JES6-5H4 antibody (Cat. No. 503804) as the detecting antibody and recombinant mouse IL-2 (Cat. No. 575409) as the standard. The LEAF™ purified antibody is suggested for ELISPOT capture (Cat. No. 503704). For ELISPOT capture applications, a concentration range of 2-6 µg/ml is recommended.

Neutralization: The JES6-1A12 antibody can neutralize the bioactivity of natural or recombinant IL-2. For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 503706) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).

- Application References:**
1. Abrams J, *et al.* 1992. *Immunol. Rev.* 127:5.
 2. Sander B, *et al.* 1993. *J. Immunol. Meth.* 166:201.
 3. Abrams J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.20.
 4. Klinman D, *et al.* 1994. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.19.
 5. Mo X, *et al.* 1995. *J. Virol.* 69:1288.
 6. Karulin A, *et al.* 2000. *J. Immunol.* 164:1862.
 7. Finkelman F, *et al.* 2003. *Curr. Prot. Immunol.* John Wiley & Sons, New York. Unit 6.28.
 8. Sitrin J, *et al.* 2013. *J Exp Med.* 210:1153. PubMed

Description: IL-2 is a potent lymphoid cell growth factor which exerts its biological activity primarily on T cells. Additionally, IL-2 has been found to stimulate growth and differentiation of B cells, NK cells, LAK cells, monocytes, and oligodendrocytes. The JES6-1A12 antibody reacts with mouse interleukin-2 (IL-2).

- Antigen References:**
1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press, San Diego.
 2. Taniguchi T, *et al.* 1993. *Cell* 73:5.
 3. Nistico G. 1993. *Prog. Neurobiol.* 40:463.
 4. Waldmann T, *et al.* 1993. *Ann. NY Acad. Sci.* 685:603.

Related Products:

Product	Clone	Application
Biotin anti-mouse IL-2	JES6-5H4	ELISA Detection, ELISPOT Detection, ICFC
Recombinant Mouse IL-2	rm IL-2	BA, ELISA
HRP Avidin	Avidin	ELISA, ELISPOT, IHC, WB
LEAF™ Purified Rat IgG2a, κ Isotype Ctrl	RTK2758	FC, ICFC, WB, IP, ICC, IF, IHC, FA



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