



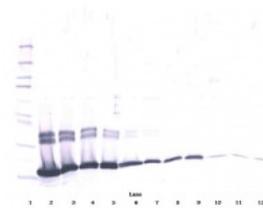
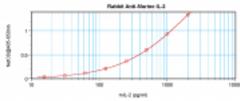
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## IL-2 Antibody

CATALOG NUMBER: XP-5183



To detect mIL-2 by sandwich ELISA (using 100  $\mu$ l/well antibody solution) a concentration of 0.5 - 2.0  $\mu$ g/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with ProSci's Biotinylated Anti-Murine IL-2 (XP-5183Bt) as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant mIL-2.

To detect mIL-2 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2  $\mu$ g/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant mIL-2 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

### Specifications

**SPECIES REACTIVITY:** Mouse

**TESTED APPLICATIONS:** ELISA, Neut, WB

**APPLICATIONS:**

Neutralization:

To yield one-half maximal inhibition [ND50] of the biological activity of mIL-2 (2.0 ng/mL), a concentration of 0.04 - 0.05  $\mu$ g/mL of this antibody is required.

ELISA:

To detect mIL-2 by direct ELISA (using 100  $\mu$ L/well antibody solution) a concentration of at least 0.5  $\mu$ g/mL of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant mIL 2.

Sandwich

To detect mIL-2 by sandwich ELISA (using 100  $\mu$ L/well antibody solution) a concentration of 0.5 - 2.0  $\mu$ g/mL of this antibody is required. This antigen affinity purified antibody, in conjunction with our Biotinylated Anti-Murine IL-2 (XP-5183Bt) as a detection antibody, allows the detection of at least 0.2 - 0.4 ng/well of recombinant mIL-2.

Western Blot:

To detect mIL-2 by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2  $\mu$ g/mL. Used in conjunction with compatible secondary reagents the detection limit for recombinant mIL-2 is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

<b>USER NOTE:</b>	Centrifuge vial prior to opening.
<b>IMMUNOGEN:</b>	Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant mIL-2 (murine Interleukin-2).
<b>HOST SPECIES:</b>	Rabbit

#### Properties

<b>PURIFICATION:</b>	Anti-mIL-2 specific antibody was purified by affinity chromatography employing immobilized mIL-2 matrix.
<b>PHYSICAL STATE:</b>	Lyophilized
<b>STORAGE CONDITIONS:</b>	IL-2 antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C. Avoid repeated freeze-thaw cycles.
<b>CLONALITY:</b>	Polyclonal
<b>CONJUGATE:</b>	Unconjugated

#### Additional Info

<b>ALTERNATE NAMES:</b>	Il-2, IL-2, Interleukin-2, T-cell growth factor, IL-2
<b>ACCESSION NO.:</b>	P04351
<b>PROTEIN GI NO.:</b>	124326
<b>OFFICIAL SYMBOL:</b>	IL2
<b>GENE ID:</b>	16183

#### Background

<b>BACKGROUND:</b>	Interleukin 2 (IL2) is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (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. IL2 has been shown to have antitumor effects in some studies. This is probably mediated by cytotoxic effector cells.
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**FOR RESEARCH USE ONLY**

March 27, 2018