



### Anti-Mouse IL-9

20150223ML



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>103-P57</b>
Size:	100 µg
Lot. No.:	According to product label

**Preparation:** Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant mIL-9. Anti-mIL-9 specific antibody was purified by affinity chromatography employing immobilized mIL-9 matrix.

### Target Background

<b>Synonyms (Target):</b>	IL9; P40; IL-9
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IL-9 is an immunoregulatory cytokine produced by IL-2 activated Th2 lymphocytes. IL-9 enhances the proliferation of T lymphocytes, mast cells, erthroid precursor cells and megakaryoblastic leukemia cell lines. Over-expression of IL-9 has been implicated in the pathogenesis of anaplastic lymphoma and Hodgkin's disease. Whereas murine IL-9 can function on human cells, human IL-9 is inactive on mouse cells. Recombinant murine IL-9 is a 14.3 kDa protein of 127 amino acid residues including 10 cysteine residues which are fully conserved between the human murine proteins.

#### Database References Target

<b>Protein RefSeq:</b>	NP_032399.1
<b>Uniprot ID:</b>	P15247
<b>mRNA RefSeq:</b>	NM_008373

### Product Specifications

<b>Species reactivity</b>	Mouse
<b>Clone/Ab feature</b>	Rabbit IgG
<b>Cross reactivity</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal Antibody
<b>Purification</b>	Antigen-affinity purified
<b>Immunogen</b>	recombinant mouse IL-9
<b>Formulation</b>	lyophilized from PBS
<b>Reconstitution buffer</b>	water

**Reconstitution:** Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

**Stability:** The lyophilized 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 AND THAW CYCLES!**

#### Applications

**Western Blot:** To detect mIL-9 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant mIL-9 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

**Neutralization:** To yield one-half maximal inhibition [ND50] of the biological activity of mIL-9 (0.30 ng/ml), a concentration of 0.006-0.012 µg/ml of this antibody is required.

**ELISA:** To detect mIL-9 by direct ELISA (using 100 µl/well antibody solution) a concentration of at least 0.5 µg/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-9.

**NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!**