

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IL-9 R in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human (rh) IL-4 R , rhIL-5 R $\alpha$ , rhIL-5 R $\beta$ , rhIL-13 R $\alpha$ 1, rhIL-13 R $\alpha$ 2, and recombinant mouse IL-9 R is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 33449
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-9 R Ser41-Pro270 Accession # Q01113
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ m filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 $\mu$ g/mL	Recombinant Human IL-9 R Subunit (Catalog # <a href="#">290-RNS</a> )

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

The specific high affinity functional IL-9 receptor complex consists of a ligand-specific IL-9 R( $\alpha$ ) type I transmembrane subunit and the common  $\gamma$  chain that is shared with the receptors for IL-2, IL-4, IL-7 and IL-15. Both the IL-9 R subunit and the common  $\gamma$  chain are members of the hematopoietin receptor superfamily. Human and mouse IL-9 receptors share 53% amino acid sequence identity, and contain 468 and 533 amino acids, respectively. As a result of alternative splicing, cDNA clones encoding isoforms of IL-9 R, including a putative soluble form, have also been identified. Cells known to express IL-9 R include T cells, neutrophils, mast cells and macrophages.