

**IL9 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8934c****Specification**

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**IL9 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P15248](#)**IL9 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 3578**Other Names**

Interleukin-9, IL-9, Cytokine P40, T-cell growth factor P40, IL9

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8934c](/products/AP8934c) was selected from the C-term region of human IL9. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**IL9 Antibody (C-term) Blocking Peptide - Protein Information****Name** IL9**Function**

Multifunctional cytokine secreted mainly by T-helper 2 lymphocytes and also mast cells or NKT cells that plays important roles in the immune response against parasites (PubMed: [29742432](http://www.uniprot.org/citations/29742432)). Affects intestinal epithelial permeability and adaptive immunity (PubMed: [29742432](http://www.uniprot.org/citations/29742432)). In addition, induces the differentiation of specific T-cell subsets such as IL-17 producing helper T-cells (TH17) and also proliferation and differentiation of mast cells. Mechanistically, exerts its biological effects through a receptor composed of IL9R subunit and a signal transducing subunit IL2RG. Receptor stimulation results in the rapid activation of JAK1 and JAK3 kinase activities leading to STAT1, STAT3 and STAT5-mediated transcriptional programs. Induction of differentiation genes seems to be mediated by STAT1 alone, while protection of cells from apoptosis depends on STAT3 and STAT5.

**Cellular Location**  
Secreted.

### **IL9 Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **IL9 Antibody (C-term) Blocking Peptide - Images**

### **IL9 Antibody (C-term) Blocking Peptide - Background**

IL9 is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes.

### **IL9 Antibody (C-term) Blocking Peptide - References**

Hosgood, H.D. III, et.al., Occup Environ Med 66 (12), 848-853 (2009) Liang, X.S., et.al., Br. J. Haematol. 146 (4), 418-423 (2009)