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

Specification

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 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). Affects intestinal epithelial permeability and adaptive immunity (PubMed: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)