

# **IL-9 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP54262

## **Specification**

# **IL-9 Polyclonal Antibody - Product Information**

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession
Host
Clonality
Calculated MW
Physical State
P15248
Rabbit
Polyclonal
16 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human IL-9

Epitope Specificity 51-144/144 Isotype IgG

Isotype Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Secreted.

SIMILARITY Belongs to the IL-7/IL-9 family.

Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

## **Background Descriptions**

affinity purified by Protein A

The protein encoded by this gene is a cytokine that actsas a regulator of a variety of hematopoietic cells. This cytokinestimulates 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. The geneencoding this cytokine has been identified as a candidate gene for as thma. Genetic studies on a mouse model of as thma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness. [provided by RefSeq, Jul 2008].

# **IL-9 Polyclonal Antibody - Additional Information**

# **Gene ID** 3578

#### **Other Names**

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

#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_E">E~~N/A</span>

## Storage





Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

# **IL-9 Polyclonal Antibody - 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:<a href="http://www.uniprot.org/citations/29742432" target="\_blank">29742432</a>). Affects intestinal epithelial permeability and adaptive immunity (PubMed:<a href="http://www.uniprot.org/citations/29742432" target="\_blank">29742432</a>). 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.

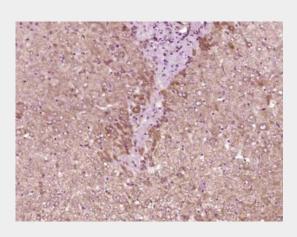
**Cellular Location** Secreted.

## **IL-9 Polyclonal Antibody - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## IL-9 Polyclonal Antibody - Images







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Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (IL-9) Polyclonal Antibody, Unconjugated (bs-10435R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.