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IL-9 Rabbit pAb

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Catalog # AP54262

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P15248
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	15909
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IL-9
Epitope Specificity	51-144/144
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 functionsthrough the interleukin 9 receptor (IL9R), which activatesdifferent signal transducer and activator (STAT) proteins and thusconnects this cytokine to various biological processes. The geneencoding this cytokine has been identified as a candidate gene forasthma. Genetic studies on a mouse model of asthma demonstratedthat this cytokine is a determining factor in the pathogenesis ofbronchial hyperresponsiveness. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	3578
Other Names	Interleukin-9, IL-9, Cytokine P40, T-cell growth factor P40, IL9
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °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 °C.

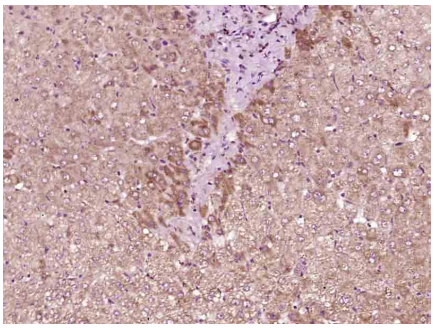
Protein Information

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.

Background

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Images



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 (AP54262) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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