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# Anti-IL-9 Antibody

Catalog # AP53759

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | P15248 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 15909 |

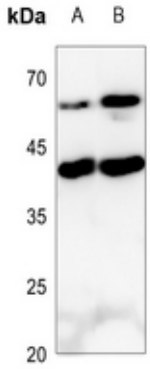
## Additional Information

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|---|---|
| **Gene ID** | 3578 |
| **Other Names** | Interleukin-9; IL-9; Cytokine P40; T-cell growth factor P40 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human IL-9. The exact sequence is proprietary. |
| **Dilution** | WB~~1/500 - 1/1000 |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

## Protein Information

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|---|---|
| **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. |

## Images




Western blot analysis of IL-9 expression in mouse heart (A), rat heart (B) whole cell lysates. (Predicted band size: 15 kD; Observed band size: 40 kD)

## Citations

- CD13-specific ligand facilitates Xanthatin nanomedicine targeting dendritic cells for therapy of refractory allergic rhinitis

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.