

## Recombinant human IL9

Catalog No: #AG0008

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Recombinant human IL9
Host Species	HEK293
Purification	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC
Immunogen Description	Gln19-Ile144
Target Name	IL9
Other Names	Human IL-9, h-IL-9, rh-IL-9, recombinant IL-9, interleukin-9
Accession No.	Uniprot:P15428Gene ID:3578
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GeneID	3578
Target Species	human
Calculated MW	14.1 KDa
Tag Info	additional amino acid free
Formulation	0.22 µm filtered solution of PBS, pH 7.4.
Storage	Aliquot and store at -80°C. Avoid repeated freeze/thaw cycles.

## Background

Interleukin-9 (IL-9), also known as P40 and MEA (mast cell growth-enhancing activity), is a 30-40 kDa glycosylated member of a cytokine family that includes Interleukins-2, -4, -7, -15, and -21. These proteins utilize heteromeric receptors containing the Common gamma chain ( gamma c) in addition to ligand-specific subunits. IL-9 interacts selectively with IL-9 R which then associates with gamma c to form the functional receptor complex. IL-9 contributes to allergic inflammation, autoimmunity-induced inflammation, parasite clearance from the GI tract, and Treg-mediated immune suppression (1, 2). It enhances the expansion and recruitment of mast cells and eosinophils as well as the production of IgE and Th2 cytokines (3?6). It is required for anaphylactic responses to ingested allergens but not to systemic allergens (7). IL-9 plays multiple roles in the development and function of subsets within the CD4+ T cell lineage (8). It is expressed by activated Th9, Th17, Treg, and Th2 cells (3, 9?12). IL-9 acts as an autocrine growth and activation factor for Th17, Treg, and mast cells (3, 11, 13). It also can inhibit immune responses by enhancing the suppressive properties of Treg and by recruiting immune-suppressive mast cells to sites of inflammation (11, 12). Mature human IL-9 shares 57% amino acid sequence identity with mouse and rat IL-9 (14, 15).

Note: This product is for in vitro research use only