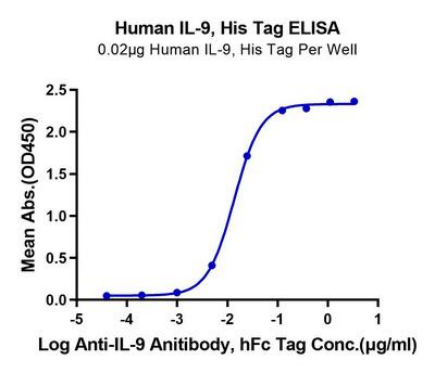
Bioactive HuPro®

IL9 (Human) Recombinant Protein

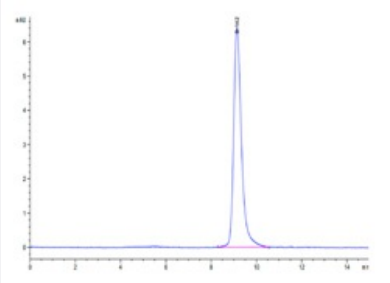
Catalog # P9728 Size 100 ug

Applications



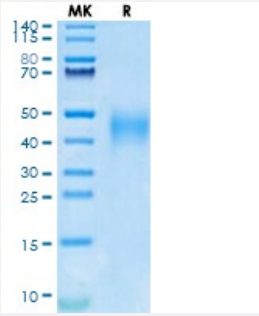
Enzyme-linked Immunoabsorbent Assay

Immobilized Human IL-9, His Tag at 0.2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-IL-9 Anitibody, hFc Tag with the EC50 of 13.6 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human IL-9 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human IL-9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Product Description	Human IL9 (P15248, 19 a.a. - 144 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	QGCPTLAGILDINFLINKMQEDPASKCHCSANVTSCLCLGIPSDNCTRPCFSERLSQMTNTTMQTR YPLIFSRVKKSVEVLKNNKCPYFSCEQPCNQTTAGNALTFLKSLLEIFQKEKMRGMRGKI
Host	Human
Theoretical MW (kDa)	15.3
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 13.6 ng/mL, messured by ELISA at 0.2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human IL-9 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-9 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human IL-9, His Tag at 0.2 ug/mL (100 uL/Well) on the plate. Dose response curve for Anti-IL-9 Anitibody, hFc Tag with the EC50 of 13.6 ng/mL determined by ELISA.
- SDS-PAGE

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Gene Info — IL9

Entrez GeneID	3578
Protein Accession#	P15248
Gene Name	IL9
Gene Alias	HP40, IL-9, P40
Gene Description	interleukin 9
Omim ID	146931
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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. The gene encoding this cytokine has been identified as a candidate gene for asthma. Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness. [provided by RefSeq
Other Designations	OTTHUMP00000159423|T-cell growth factor p40|homolog of mouse T cell and mast cell growth factor 40|p40 T-cell and mast cell growth factor|p40 cytokine

Pathway

- Asthma
- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway

Disease

- Asthma
- Atherosclerosis
- Berylliosis
- Brain Ischemia
- Bronchial Hyperreactivity

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Bronchiolitis
- Cardiovascular Diseases
- Celiac Disease
- Chlamydia Infections
- Chorioamnionitis
- Chronic Disease
- Constriction
- Coronary Artery Disease
- Diabetes Mellitus
- Edema
- Fetal Membranes
- Food Hypersensitivity
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hodgkin Disease
- Hypersensitivity
- Hypertension
- Infant
- Inflammation
- Lymphoma
- Lymphoproliferative Disorders
- Migraine Disorders
- Multiple Myeloma
- Multiple Sclerosis
- Obstetric Labor
- Occupational Diseases

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Osteoporosis
- Pre-Eclampsia
- Premature Birth
- Recurrence
- Respiratory Hypersensitivity
- Respiratory Sounds
- Respiratory Syncytial Virus Infections
- Schizophrenia
- Stroke
- Trachoma
- Waldenstrom Macroglobulinemia
- Werner syndrome

Copyright © 2023 Abnova Corporation. All Rights Reserved.