

## Anti-IL-9 Antibody

Catalog Number: A02925-1

### About IL9

Interleukin 9 (IL-9) is a cytokine secreted by TH2 lymphocytes that acts as a regulator of a variety of hematopoietic cells, stimulates cell proliferation and prevents apoptosis (1,2). It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins (3). The IL-9 gene has been identified as a candidate gene for asthma (4). Genetic studies on a mouse model of asthma demonstrated that this cytokine is a determining factor in the pathogenesis of bronchial hyperresponsiveness (5).

### Overview

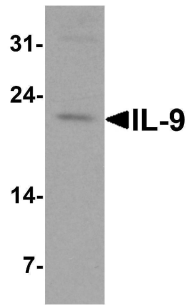
Product Name	Anti-IL-9 Antibody
Reactive Species	Human
Description	Boster Bio Anti-IL-9 Antibody (Catalog # A02925-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	IL-9 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	P15248

### Technical Details

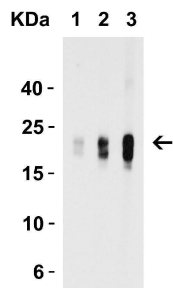
Immunogen	Anti-IL-9 antibody was raised against a peptide corresponding to 16 amino acids near the carboxy terminus of human IL-9. The immunogen is located within the last 50 amino acids of IL-9.
Predicted Reactive Species	Bovine, Chicken
Cross Reactivity	IL-9 antibody is human specific. IL-9 antibody is predicted to no cross-react with IL-7.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	IL-9 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 1-4 ug/mL; IHC: 5 ug/mL; IF: 20 ug/mL.

Antibody validated: Western Blot in human samples; Immunohistochemistry in human samples; Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

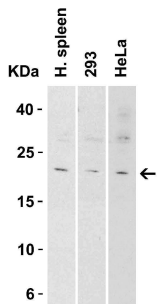
## Anti-IL-9 Antibody (A02925-1) Images



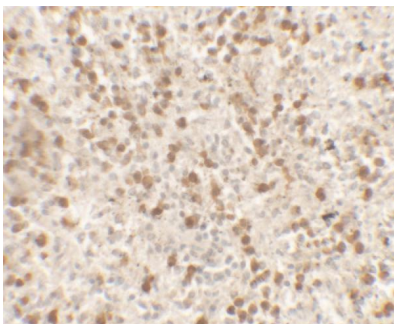
Western Blot Validation in Human Spleen Tissue Lysate  
Loading: 15 ug of lysates per lane. Antibodies: IL-9, A02925-1 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation with Recombinant Protein Loading:  
30 ng of human IL-9 recombinant protein per lane. Antibodies: IL-9, A02925-1 (Lane 1: 1 ug/mL, Lane 2: 2 ug/mL and Lane 3: 4 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 22kD.

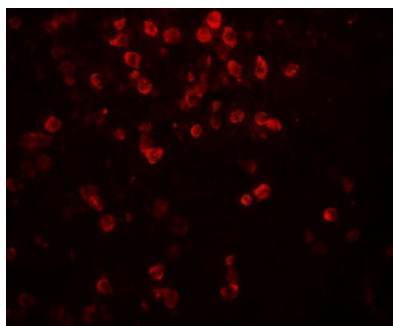


Western Blot Validation in Tissue and Cell Lines Loading: 15 ug of lysates per lane. Antibodies: IL-9, A02925-1 (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry Validation of IL-9 in Human Spleen Tissue  
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IL-9 antibody (A02925-1) at 5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

Immunohistochemistry Validation of IL-9 in Human Spleen Tissue  
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-IL-9 antibody (A02925-1) at 5 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat



anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary.  
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Anti-IL-9 Antibody

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