

Anti-IL-9 Antibody

Catalog Number: A02925-1

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/delta) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been quality control tested by flow cytometric analysis of human PBMCs. For flow cytometric staining, the recommended use of this antibody is $\leq 0.5\mu\text{g}$ per 1×10^6 cells in $100\mu\text{l}$ of staining volume followed by a secondary fluorescent conjugated anti-mouse antibody. However, it is strongly suggested that the antibody reactivity be empirically titrated for optimal performance in the application of interest.

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

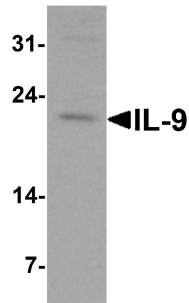
Product Name	Anti-IL-9 Antibody
Reactive Species	Human
Description	Boster Bio Anti-IL-9 Antibody (Catalog # A02925-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Conjugate	Biotin
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal SK7
Formulation	IL-9 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	IL-9 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit

Uniprot ID	P15248
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Technical Details

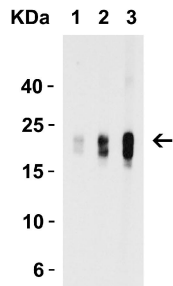
Immunogen	Anti-IL-9 antibody was raised against a peptide corresponding to 16 amino acids near the carboxy terminus of human IL-9. The immunogen is located within the last 50 amino acids of IL-9.
Predicted Reactive Species	Bovine, Chicken
Cross Reactivity	IL-9 antibody is human specific. IL-9 antibody 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	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>WB: 1-4 ug/mL; IHC: 5 ug/mL; IF: 20 ug/mL.</p> <p>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.</p>

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



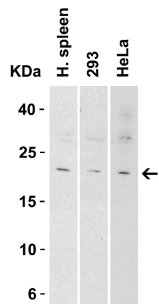
Western Blot Validation in Human Spleen Tissue Lysate

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.



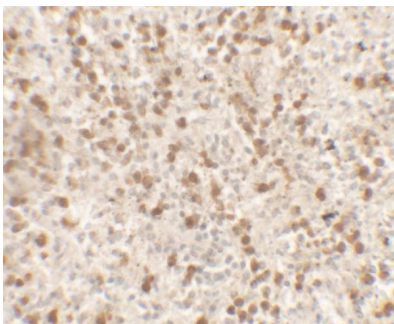
Western Blot Validation with Recombinant Protein

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.

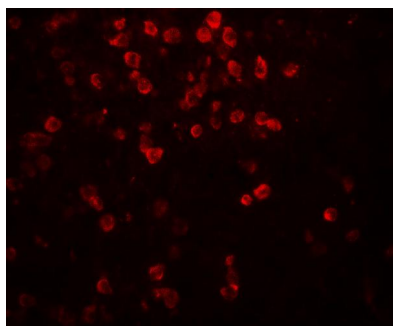


Immunohistochemistry Validation of IL-9 in Human Spleen Tissue

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.

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