

Anti- IL-9 Monoclonal Antibody

Catalog Number: M02925



About IL9

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, Jul 2008]

Overview

Product Name	Anti- IL-9 Monoclonal Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti- IL-9 Monoclonal Antibody catalog # M02925. Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Monoclonal AFID-9
Formulation	PBS, pH 7.0. Contains no stabilizers or preservatives
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P15248

Technical Details

Immunogen	Human IL-9 coupled to ovalbumin
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1001) for Western blot.
Isotype	Mouse IgG2b, 
Form	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500  g/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used Western blot, 0.25-0.5 μ g/ml, Mouse, Rat

For protocols, please visit <https://www.bosterbio.com/protocol-and-troubleshooting/>

Anti- IL-9 Monoclonal Antibody (M02925) Images

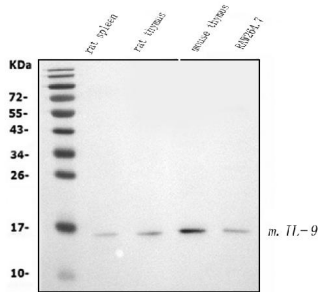


Figure 1. Western blot analysis of IL-9 using anti-IL-9 antibody (M02925).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: rat spleen tissue lysates,

Lane 2: rat thymus tissue lysates,

Lane 3: mouse thymus tissue lysates,

Lane 4: mouse RAW264.7 whole cell lysates.

After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes.

Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-IL-9 antigen affinity purified monoclonal antibody (Catalog # M02925) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1001) with Tanon 5200 system. A specific band was detected for IL-9 at approximately 16KD. The expected band size for IL-9 is at 16KD.

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