

Datasheet for 600-401-BX8**IL-9 Antibody****Overview**

Description:	Anti-IL-9 (RABBIT) Antibody - 600-401-BX8
Item No.:	600-401-BX8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	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).
Synonyms:	IL-9 Antibody , P40, HP40, IL-9, Interleukin-9, Cytokine P40
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL9
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-IL-9 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the C-terminus of human IL-9.

Purity/Specificity: Anti-IL-9 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. IL-9 antibody is human specific. IL-9 antibody is predicted to no cross-react with IL-7.

Relevant Links:

- [UniProtKB - P15248](#)
- [GeneID - 3578](#)
- [NCBI - NP_000581](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-IL-9 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 16 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: User Optimized

IF: User Optimized

IHC: User Optimized

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

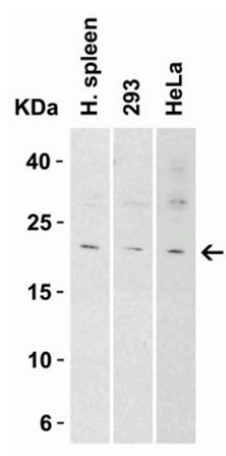
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

Images



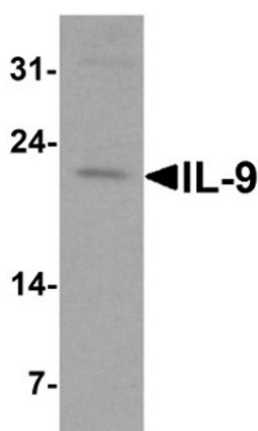
Western Blot

Western Blot of IL-9.

Load: 15 µg of human tissue or cell lysates per lane.

Primary Antibody: IL-9 at 1µg/mL for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



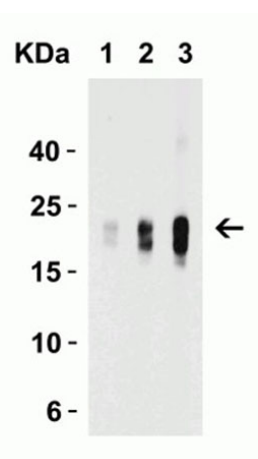
Western Blot

Western Blot of IL-9.

Load: 15 µg of human spleen tissue lysates per lane.

Primary antibody: IL-9 at 1µg/mL for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot

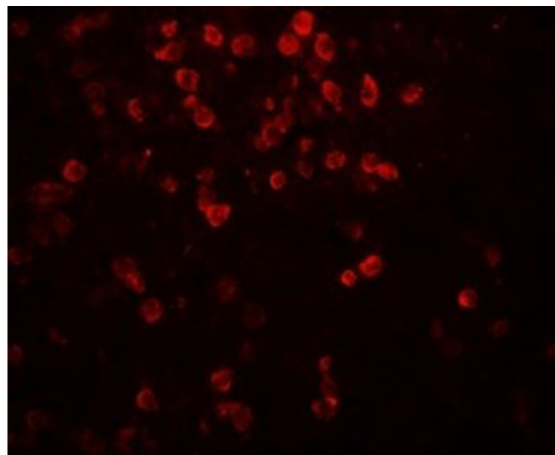
Western Blot of IL-9.

Load: 30 ng of human IL-9 recombinant protein per lane.

Primary Antibody: IL-9 at (Lane 1: 1 µg/mL, Lane 2: 2 µg/mL, and Lane 3: 4 µg/mL) for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Observed at around 22kD.

**Immunofluorescence Microscopy**

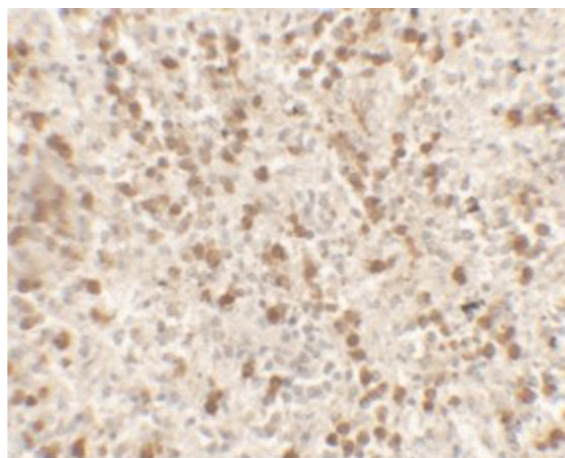
Immunofluorescence of IL-9.

Tissue: Human Spleen Tissue.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: anti-IL-9 antibody at 20 µg/mL.

Secondary: goat anti-rabbit IgG at 1:500 dilution (red).

**Immunohistochemistry**

Immunohistochemistry of IL-9.

Tissue: Human Spleen Tissue.

Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-IL-9 antibody at 5 µg/ml overnight at 4°C.

Secondary: goat anti-rabbit IgG H&L (HRP) at 1:250 was used as secondary. Counter stained with Hematoxylin.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.