

## Datasheet: AHP941Z

**BATCH NUMBER 151927**

<b>Description:</b>	RABBIT ANTI CHICKEN INTERLEUKIN-1 BETA:Preservative Free
<b>Specificity:</b>	IL-1 BETA
<b>Format:</b>	Preservative Free
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.5 mg

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			
Functional Assays	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**Target Species** Chicken

**Product Form** Purified IgG - liquid

**Antiserum Preparation** Antisera to chicken Interleukin-1 $\beta$  were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography on protein G

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** None present

**Approx. Protein** IgG concentration 0.5 mg/ml

## Concentrations

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**Immunogen** [Recombinant chicken IL-1 \$\beta\$](#)

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**External Database Links**

**UniProt:**  
[O73909](#)     [Related reagents](#)

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**RRID** AB\_567064

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**Specificity**

**Rabbit anti Chicken interleukin-1 beta antibody** recognizes chicken Interleukin 1 beta (chIL-1beta), which shares homology with mammalian IL-1beta.

IL-1 is a major regulator in both innate and adaptive immune responses, plays an important role in the regulation of acute inflammation and has also been implicated in many other processes, including both fever and fibrinogen induction. The previous names by which IL-1 has been known includes lymphocyte activating factor, endogenous pyrogen, catabolin, hemopoietin-1, melanoma growth inhibition factor, and osteoclast activating factor, reflecting its widespread cell expression.

Chicken models indicate physiological similarities between chIL-1beta and mammalian IL-1beta in relation to its neural distribution and several factors have been shown to induce chIL-1beta secretion, including protein kinase C (PKC), Calmodulin-dependent protein kinase, lipopolysaccharide, phorbol esters, calcium and silica.

Rabbit anti Chicken interleukin-1 beta antibody (**AHP941Z**) neutralizes chicken IL-1 beta ([Gyorfy \*et al.\* 2003](#)).

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**Western Blotting**

AHP941Z detects a band of approximately 29kDa in HD-11 cell lysates transfected with chIL-1.

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**References**

1. Gyorfy, Z. *et al.* (2003) Truncated chicken interleukin-1beta with increased biologic activity. [J Interferon Cytokine Res. 23 \(5\): 223-8.](#)
  2. De Boever, S. *et al.* (2010) Flow cytometric differentiation of avian leukocytes and analysis of their intracellular cytokine expression. [Avian Pathol. 39: 41-6.](#)
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**Further Reading**

1. Bombara, C.J. & TaylorRI, J.r. (1991) Signal transduction events in chicken interleukin-1 production. [Poult Sci. 70 \(6\): 1372-80.](#)
  2. Weining, K.C. *et al.* (1998) A chicken homolog of mammalian interleukin-1 beta: cDNA cloning and purification of active recombinant protein. [Eur J Biochem. 258 \(3\): 994-1000.](#)
  3. Staeheli, P. *et al.* (2001) Cytokines of birds: conserved functions--a largely different look. [J Interferon Cytokine Res. 21 \(12\): 993-1010.](#)
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**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10162 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP941Z>  
10162

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**North & South** Tel: +1 800 265 7376

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