

## Datasheet: PAP002

<b>Description:</b>	RECOMBINANT CHICKEN INTERLEUKIN-1 BETA
<b>Name:</b>	IL-1 BETA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	50 µg

## 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
ELISA			▪	
Functional Assays	▪			
In vitro Assay	▪			

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Chicken
<b>Product Form</b>	Purified His-tagged recombinant protein expressed in <i>E.coli</i> - liquid
<b>Preparation</b>	Recombinant protein prepared from <i>E.coli</i>
<b>Source</b>	E.coli
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	250 ug/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">O73909</a> <a href="#">Related reagents</a>

**Product Information** **Recombinant Chicken interleukin-1 (IL-1)** is a pro-inflammatory cytokine secreted by many different cell types acting on a wide range of target cells, resulting in a diverse range of effects. The biological properties of IL-1 include the induction of B cell proliferation, stimulation of T cell proliferation in conjunction with IL-2 and the production of collagenase and prostaglandin by fibroblasts. IL-1 is also responsible for triggering the acute-phase response in the liver, and is involved in both cytokine network and vascular endothelium activation. Recombinant Chicken interleukin-1 (**PAP002**) induces corticosterone secretion *in vivo* ([Weining et al. 1992](#)).

Recombinant Chicken interleukin-1 (**PAP002**) was the immunogen used to produce Bio-Rad chicken IL-1beta antibody ([AHP941Z](#)).

---

**Protein Molecular Weight** approximately 23kD

---

**Purity** >85% by Ni chelate Chromatography

---

**References**

1. 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.](#)
2. Abdel-mageed, A.M. *et al.* (2017) Modulatory roles of proinflammatory cytokines on the expression of cathelicidins in the lower regions of the oviduct of laying hens. [Cytokine. 99: 66-72.](#)

---

**Further Reading**

1. Gyorfy, Z. *et al.* (2003) Truncated chicken interleukin-1beta with increased biologic activity. [J Interferon Cytokine Res. 23 \(5\): 223-8.](#)

---

**Storage**

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

---

**Guarantee** 3 months from date of despatch

---

**Acknowledgements** His-tag is a registered trademark of EMD Biosciences.

---

**Health And Safety Information** Material Safety Datasheet documentation #10209 available at: <https://www.bio-rad-antibodies.com/SDS/PAP002>  
10209

---

**Regulatory** For research purposes only

---

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

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

'M420062:230706'

Printed on 19 Jan 2024

---

