

## 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>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](#)).

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**Protein Molecular Weight** approximately 23kD

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

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**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. Gyorfy, Z. *et al.* (2003) Truncated chicken interleukin-1beta with increased biologic activity. [J Interferon Cytokine Res. 23 \(5\): 223-8.](#)
3. 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.](#)

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**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.

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**Guarantee** 3 months from date of despatch

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

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

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**Regulatory** For research purposes only

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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)

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