

Datasheet: PAP002

Description:	RECOMBINANT CHICKEN INTERLEUKIN-1 BETA
Name:	IL-1 BETA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
ELISA			▪	
Functional Assays	▪			
In vitro Assay	▪			

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 His-tagged recombinant protein expressed in <i>E.coli</i> - liquid
Preparation	Recombinant protein prepared from <i>E.coli</i>
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	250 ug/ml
External Database Links	UniProt: O73909 Related reagents

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
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Purity	>85% by Ni chelate Chromatography
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References	<ol style="list-style-type: none">1. Weining, K.C. <i>et al.</i> (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. <i>et al.</i> (2003) Truncated chicken interleukin-1beta with increased biologic activity. J Interferon Cytokine Res. 23 (5): 223-8.3. Abdel-mageed, A.M. <i>et al.</i> (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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Shelf Life	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 available at: Material Safety Datasheet Documentation #10209 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf
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Regulatory	For research purposes only
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