

Datasheet: PAP003

**BATCH NUMBER 162109**

<b>Description:</b>	RECOMBINANT CHICKEN INTERLEUKIN-6
<b>Name:</b>	IL-6
<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>	500 ug/ml
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q90YI0</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b>

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<b>Product Information</b>	<p><b>Recombinant chicken interleukin-6</b> is a histidine tagged molecule produced in <i>E. coli</i>. Interleukin-6 (IL-6) is a multifunctional pro-inflammatory cytokine, produced by a wide variety of cells including B lymphocytes, T lymphocytes, monocytes/macrophages, fibroblasts and endothelial cells. It plays a major role in the regulation of immune responses, haematopoiesis and the induction of acute phase responses.</p> <p>Recombinant chicken interleukin-6 induces corticosterone secretion <i>in vivo</i> and induces proliferation of the IL-6 dependant murine hybridoma cell line 7TD1 <i>in vitro</i> (<a href="#">Marais et al. 2011</a>).</p> <p>Recombinant chicken interleukin-6 (<b>PAP003</b>) is the immunogen used to produce Bio-Rad chicken IL-6 antibody (<a href="#">AHP942Z</a>).</p>
<b>Protein Molecular Weight</b>	23.2 kD
<b>Purity</b>	>85% by Ni Chelate chromatography
<b>References</b>	<ol style="list-style-type: none"><li>1. Marais, M. <i>et al.</i> (2011) Brain IL-6- and PG-dependent actions of IL-1<math>\beta</math> and lipopolysaccharide in avian fever. <a href="#">Am J Physiol Regul Integr Comp Physiol. 301 (3): R791-800.</a></li><li>2. Ferdous F &amp; Scott T (2015) Bacterial and viral induction of chicken thrombocyte inflammatory responses. <a href="#">Dev Comp Immunol. 49 (2): 225-30.</a></li><li>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. <a href="#">Cytokine. 99: 66-72.</a></li><li>4. Ferdous, F. &amp; Scott, T. (2015) Bacterial and viral induction of chicken thrombocyte inflammatory responses. <a href="#">Dev Comp Immunol. 49 (2): 225-30.</a></li></ol>
<b>Further Reading</b>	<ol style="list-style-type: none"><li>1. Schneider, K. <i>et al.</i> (2001) Chicken interleukin-6. cDNA structure and biological properties. <a href="#">Eur J Biochem. 268 (15): 4200-6.</a></li></ol>
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	3 months from date of despatch
<b>Acknowledgements</b>	His-tag is a registered trademark of EMD Biosciences.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10209 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PAP003">https://www.bio-rad-antibodies.com/SDS/PAP003</a></p> <p>10209</p>
<b>Regulatory</b>	For research purposes only

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