

Datasheet: PAP003

BATCH NUMBER 162109

Description:	RECOMBINANT CHICKEN INTERLEUKIN-6
Name:	IL-6
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 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.

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	500 ug/ml
External Database Links	<p>UniProt:</p> <p>Q90YI0 Related reagents</p> <p>Entrez Gene:</p>

Product Information	<p>Recombinant chicken interleukin-6 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> (Marais et al. 2011).</p> <p>Recombinant chicken interleukin-6 (PAP003) is the immunogen used to produce Bio-Rad chicken IL-6 antibody (AHP942Z).</p>
Protein Molecular Weight	23.2 kD
Purity	>85% by Ni Chelate chromatography
References	<ol style="list-style-type: none">1. Marais, M. <i>et al.</i> (2011) Brain IL-6- and PG-dependent actions of IL-1β and lipopolysaccharide in avian fever. Am J Physiol Regul Integr Comp Physiol. 301 (3): R791-800.2. Ferdous F & Scott T (2015) Bacterial and viral induction of chicken thrombocyte inflammatory responses. Dev Comp Immunol. 49 (2): 225-30.3. 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: 66-72.4. Ferdous, F. & Scott, T. (2015) Bacterial and viral induction of chicken thrombocyte inflammatory responses. Dev Comp Immunol. 49 (2): 225-30.
Further Reading	<ol style="list-style-type: none">1. Schneider, K. <i>et al.</i> (2001) Chicken interleukin-6. cDNA structure and biological properties. Eur J Biochem. 268 (15): 4200-6.
Storage	<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>
Guarantee	3 months from date of despatch
Acknowledgements	His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	<p>Material Safety Datasheet documentation #10209 available at: https://www.bio-rad-antibodies.com/SDS/PAP003</p> <p>10209</p>
Regulatory	For research purposes only

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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