

Datasheet: PAP003

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

UniProt:

[Q90Y10](#)

[Related reagents](#)

Entrez Gene:

[395337](#)

IL6

[Related reagents](#)

Product Information

Recombinant chicken interleukin-6 is a histidine tagged molecule produced in *E. coli*. 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.

Recombinant chicken interleukin-6 induces corticosterone secretion *in vivo* and induces proliferation of the IL-6 dependant murine hybridoma cell line 7TD1 *in vitro* ([Marais et al. 2011](#)).

Recombinant chicken interleukin-6 (**PAP003**) is the immunogen used to produce Bio-Rad chicken IL-6 antibody ([AHP942Z](#)).

Protein Molecular Weight

23.2kD

Purity

>85% by Ni Chelate chromatography

References

1. Marais, M. *et al.* (2011) Brain IL-6- and PG-dependent actions of IL-1 β 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. *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.](#)
4. Ferdous, F. & Scott, T. (2015) Bacterial and viral induction of chicken thrombocyte inflammatory responses. [Dev Comp Immunol. 49 \(2\): 225-30.](#)

Further Reading

1. Schneider, K. *et al.* (2001) Chicken interleukin-6. cDNA structure and biological properties. [Eur J Biochem. 268 \(15\): 4200-6.](#)

Storage

Store at -20°C only.
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.

Shelf Life

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:
10209: <https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf>

Regulatory

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