

## Datasheet: HCA362

<b>Description:</b>	HUMAN ANTI BOVINE INTERLEUKIN-22
<b>Specificity:</b>	IL-22
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD20463
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	0.1 mg

## 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	▪			

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>	Bovine
<b>Product Form</b>	A bivalent human recombinant Fab antibody selected from the HuCAL phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Fc-fusion protein containing the amino acid sequence 34-190 from bovine interleukin-22

**External Database  
Links**

**UniProt:**

[F1SH68](#)

[Related reagents](#)

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**Specificity**

**Human anti Bovine Interleukin-22, clone AbD20463** recognizes bovine interleukin-22 (IL-22).

IL-22 is a T and NK cell cytokine, a member of IL-10 cytokine family and is expressed by mitogen activated bovine peripheral blood  $\gamma\delta$  T cells. IL-22 is rapidly produced by splenic cells and can be produced by Th17 cells. IL-22 takes part in regulating the immune responses of adaptive and innate immune systems.

Human anti Bovine Interleukin-22 has been successfully used to analyze IL-22 expression in PBMC from *M. bovis*. – infected cattle. Bovine tuberculin induced IL-22 and IL-17A production in *M. bovis*. infected cattle was observed in both CD4+ T cells and  $\gamma\delta$  T cell populations ([Steinbach et al. 2016](#)).

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**ELISA**

This product may be used as a capture reagent in a sandwich ELISA together with [HCA363](#) as the detection reagent.

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

This product and/or its use is covered by claims of U.S. patents, and/or pending U.S. and non-U.S. patent applications owned by or under license to Bio-Rad Laboratories, Inc. See [bio-rad.com/en-us/trademarks](http://bio-rad.com/en-us/trademarks) for details.

His-tag is a trademark of EMD Biosciences.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA362>  
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**Licensed Use**

For *in vitro* research purposes only, unless otherwise specified in writing by Bio-Rad.

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**Regulatory**

For research purposes only

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**Technical Advice**

Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the [HuCAL Antibodies Technical Manual](#).

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## Related Products

### Recommended Useful Reagents

[RECOMBINANT BOVINE INTERLEUKIN-22 \(PBP042\)](#)  
[RAT ANTI DYKDDDDK TAG:HRP \(MCA4764P\)](#)

## **ELISA Matched Pair - Detection Antibody**

[HUMAN ANTI BOVINE INTERLEUKIN-22 \(HCA363\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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://bio-rad-antibodies.com/datasheets)  
'M428532:240301'

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