

Datasheet: HCA363

BATCH NUMBER 158516

Description:	HUMAN ANTI BOVINE INTERLEUKIN-22
Specificity:	IL-22
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD36295
Isotype:	HuCAL Fab bivalent
Quantity:	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.

	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.

Target Species	Bovine
Product Form	A bivalent human recombinant Fab selected from the HuCAL® phage display library, expressed in <i>E. coli</i> . This Fab fragment is bivalent by dimerization of the bacterial alkaline phosphatase fusion protein. The antibody is tagged with a DYKDDDDK tag and a double extended Strep-tag (SAWSHPQFEKGGGSGGGSGGSAWSHPQFEK). This antibody is supplied liquid.
Preparation	StrepTactin affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml

Immunogen Fc-fusion protein containing the amino acid sequence 34-190 from bovine interleukin-22

External Database

Links

UniProt:

[F1SH68](#)

[Related reagents](#)

Specificity

Human anti Bovine Interleukin-22, clone AbD36295 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](#)).

ELISA

This product may be used as a detection reagent in a sandwich ELISA together with [HCA362](#) as the capture reagent.

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.

Guarantee

12 months from date of despatch

Acknowledgements

Sold under license of U.S. Patents 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad.

Health And Safety Information

Material Safety Datasheet documentation #10094 available at: <https://www.bio-rad-antibodies.com/SDS/HCA363> 10094

Licensed Use

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

Regulatory

For research purposes only

Technical Advice

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

Related Products

Recommended Positive Controls

[RECOMBINANT BOVINE INTERLEUKIN-22 \(PBP042\)](#)

Recommended Useful Reagents

[RAT ANTI DYKDDDDK TAG:HRP \(MCA4764P\)](#)

ELISA Matched Pair - Capture Antibody

[HUMAN ANTI BOVINE INTERLEUKIN-22 \(HCA362\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M390450:210910'

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