

Datasheet: HCA363

BATCH NUMBER 172988

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 (SAWSHPQFEKGGGSGGGSSGSAWSHPQFEK). This antibody is supplied liquid.
Preparation	StrepTactin affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
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

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 for details.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/HCA363>

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 \(HCA362\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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