

Datasheet: HCA268

Description:	HUMAN ANTI BOVINE INTERLEUKIN-2
Specificity:	IL-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD22297
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
Flow Cytometry		▪		
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
ELISpot	▪			

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 (kappa light chain) 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 V5 tag and a double extended Strep-tag (SAWSHPQFEKGGGSGGGSGGSAWSHPQFEK).
Preparation	Metal chelate 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 21-155 from bovine interleukin-2
External Database Links	<p>UniProt: P05016 Related reagents</p> <p>Entrez Gene: 280822 IL2 Related reagents</p>
Synonyms	IL-2
Specificity	<p>Human anti Bovine Interleukin-2, clone AbD22297 recognizes bovine interleukin-2 (IL-2), also known as T-cell growth factor (TCGF). Bovine IL-2 is a 155 amino acid secreted cytokine produced by T-cells following antigenic or mitogenic stimulation. It plays a crucial role in T-cell proliferation and immune regulation.</p> <p>Human anti bovine interleukin-2, clone AbD22297, has been successfully used for the detection and measurement of native and recombinant bovine IL-2 in ELISA where it acts as the detection antibody in a sensitive assay for bovine IL-2 determination. Bio-Rad recommend clone AbD21766 (HCA267) for intracellular flow cytometry.</p>
Affinity	The intrinsic affinity of the monovalent form of this antibody is $K_D=0.3$ nM as measured by real time, label-free molecular interaction analysis on recombinant bovine IL-2.
ELISA	This product may be used as a detection reagent in a sandwich ELISA together with HCA267 as the capture reagent.
Further Reading	1. Rhodes, S.G. <i>et al.</i> (2014) Use of antigen-specific interleukin-2 to differentiate between cattle vaccinated with Mycobacterium bovis BCG and cattle infected with M. bovis. Clin Vaccine Immunol. 21:39-45.
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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/HCA268>

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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 Secondary Antibodies

Mouse Anti Viral V5-TAG (MCA1360...) [HRP](#)

Recommended Useful Reagents

[HUMAN ANTI BOVINE INTERLEUKIN-2 \(HCA267\)](#)

[STREPTAVIDIN:HRP \(STAR5B\)](#)

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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://www.bio-rad-antibodies.com/datasheets)

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