

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	0.01% Thiomersal

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 monovalent intrinsic affinity of this antibody was measured as $K_D=0.3$ nM 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 #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf

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 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
'M391775:211015'

Printed on 21 Mar 2022