

Datasheet: HCA267

Description:	HUMAN ANTI BOVINE INTERLEUKIN-2
Specificity:	IL-2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD21766
Isotype:	HuCAL Fab monovalent
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 (1)	•			
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.

(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code <u>BUF09</u>) is recommended for this purpose.

Target Species	Bovine	
Product Form	A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL phage display library, expressed in <i>E. coli</i> . The antibody is tagged with a DYKDDDDK and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain.	
Preparation	Metal chelate affinity chromatography	
Buffer Solution	Phosphate buffered saline	
Preservative	0.09% Sodium Azide (NaN ₃)	

Stabilisers						
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	UniProt: P05016 Related reagents Entrez Gene:					
	280822 IL2 Related reagents					
Synonyms	IL-2					
Specificity	Human anti Bovine Interleukin-2, clone AbD21766 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.					
	Human anti bovine interleukin-2, clone AbD21766, has been successfully used for the detection and measurement of native and recombinant bovine IL-2 using intracellular flow cytometry, ELISPOT and ELISA.					
	In ELISA and ELISPOT clone AbD21766 functions as the capture antibody in a sensitive assay for bovine IL-2 determination.					
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 interleukin-2.					
Flow Cytometry	Use 10μl of the suggested working dilution to label 1x10 ⁶ cells in 100μl.					
Further Reading	 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. <u>Clin Vaccine Immunol. 21:39-45.</u> Whelan, A.O., <i>et al.</i> (2011) Development of an Antibody to Bovine IL-2 Reveals Multifunctional CD4 T(EM) Cells in Cattle Naturally Infected with Bovine Tuberculosis PLoS One. 6(12):e29194 					
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. His-tag is a trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA267 10040
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 <u>HuCAL Antibodies Technical Manual</u> .

Related Products

North & South Tel: +1 800 265 7376

America

Recommended Negative Controls

HuCAL Fab-FH NEGATIVE CONTROL (HCA045)

Recommended Useful Reagents

5x ELISA COATING BUFFER (BUF030A)

Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

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 'M433139:240919'

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