

## Datasheet: HCA267A647

<b>Description:</b>	HUMAN ANTI BOVINE INTERLEUKIN-2:Alexa Fluor® 647
<b>Specificity:</b>	IL-2
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD21766
<b>Isotype:</b>	HuCAL Fab monovalent
<b>Quantity:</b>	100 TESTS/1ml

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunofluorescence			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

**Target Species** Bovine

**Product Form** A monovalent human recombinant Fab (kappa light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. Conjugated to Alexa Fluor 647 (A647) - liquid.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665

**Preparation** Metal chelate affinity chromatography

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.01% Thiomersal  
**Stabilisers** 1% Bovine Serum Albumin

<b>Approx. Protein Concentrations</b>	Antibody concentration 0.05 mg/ml
<b>Immunogen</b>	Fc-fusion protein containing the amino acid sequence 21-155 from bovine interleukin-2.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P05016</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">280822</a>    IL2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	IL-2
<b>Specificity</b>	<p><b>Human anti Bovine Interleukin-2, clone AbD21766</b> 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 AbD21766, has been successfully used for the detection and measurement of native and recombinant bovine IL-2 using intracellular flow cytometry, ELISPOT and ELISA.</p> <p>In ELISA and ELISPOT clone AbD21766 functions as the capture antibody in a sensitive assay for bovine IL-2 determination.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul. Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm ( <a href="#">BUF09</a> ) for this purpose.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>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. <a href="#">Clin Vaccine Immunol. 21:39-45.</a></li> <li>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 <a href="#">PLoS One. 6(12):e29194</a></li> </ol>
<b>Storage</b>	<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>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	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

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**Health And Safety Information**

Material Safety Datasheet documentation #10095 available at: 10095: <https://www.bio-rad-antibodies.com/uploads/MSDS/10095.pdf>

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**Regulatory**

For research purposes only

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**Technical Advice**

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

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## Related Products

### Recommended Useful Reagents

[LEUCOPERM \(BUF09\)](#)

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

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