

## Datasheet: HCA268

**BATCH NUMBER 1604**

<b>Description:</b>	HUMAN ANTI BOVINE INTERLEUKIN-2
<b>Specificity:</b>	IL-2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD22297
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Bovine
<b>Product Form</b>	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).
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.01% Thiomersal

## Stabilisers

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**Approx. Protein Concentrations** Antibody concentration 0.5 mg/ml

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**Immunogen** Fc-fusion protein containing the amino acid sequence 21-155 from bovine interleukin-2

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## External Database Links

### UniProt:

[P05016](#)    [Related reagents](#)

### Entrez Gene:

[280822](#) IL2    [Related reagents](#)

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**Synonyms** IL-2

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**Specificity** **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.

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.

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**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.

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**ELISA** This product may be used as a detection reagent in a sandwich ELISA together with [HCA267](#) as the capture reagent.

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**Further Reading** 1. Rhodes, S.G. *et al.* (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.](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.

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**Health And Safety** Material Safety Datasheet documentation #10094 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/HCA268>  
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**Licensed Use** For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

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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 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)  
'M371703:200612'

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