

Datasheet: HCA116

Description:	HUMAN ANTI BOVINE FOXP3
Specificity:	FOXP3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD07627
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 (1)	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

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. Bio-Rad recommends the use of 0.1% Triton X-100 for this purpose.

Target Species	Bovine
Species Cross Reactivity	Does not react with: Sheep
Product Form	A bivalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in <i>E. coli</i> . This Fab fragment is dimerized via a helix-turn-helix motif. The antibody is tagged with a myc-tag (EQKLISEEDL) and a his-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied liquid.
Preparation	Metal chelate affinity chromatography

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal
Approx. Protein Concentrations	0.5 mg/ml
Immunogen	Bovine Foxp3-N1 fusion protein
External Database Links	UniProt: Q2LEZ0 Related reagents
RRID	AB_1658061
Specificity	<p>Human anti Bovine FoxP3 antibody, clone AbD07627 recognizes bovine FoxP3, a ~48 kDa forkhead transcription factor family member, which was originally identified as the novel protein scurfin. FoxP3 functions as a DNA binding protein that represses transcription, and is reported to be involved in the regulation of T cell activation, differentiation and homeostasis.</p> <p>FoxP3 is predominantly expressed within the nuclei of CD25 +CD4 + regulatory T cells (Tr). This population of FoxP3+CD25+CD4+ Tr cells plays an essential role in controlling autoimmunity.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
ELISA	This product is suitable for use in direct ELISA applications.
References	<ol style="list-style-type: none"> Maślanka T <i>et al.</i> (2012) The presence of CD25 on bovine WC1+ $\gamma\delta$ T cells is positively correlated with their production of IL-10 and TGF-β, but not IFN-γ. Pol J Vet Sci. 15 (1): 11-20. Walsh, N.M. <i>et al.</i> (2016) A Morphological and Immunophenotypic Map of the Immune Response in Merkel Cell Carcinoma. Hum Pathol. Mar 2. pii: S0046-8177(16)00064-2. [Epub ahead of print] Maślanka T & Jaroszewski JJ (2013) Foxp3 expression in bovine CD8+ T cells is associated with the intensity of CD25 expression. J Vet Med Sci. 75 (2): 241-4. Maślanka T & Jaroszewski JJ (2013) In vitro effects of meloxicam on the number, Foxp3 expression, production of selected cytokines, and apoptosis of bovine CD25+CD4+ and CD25-CD4+ cells. J Vet Sci. 14 (2): 125-34. Walsh, N.M. <i>et al.</i> (2016) A morphological and immunophenotypic map of the immune response in Merkel cell carcinoma. Hum Pathol. 52: 190-6. Dorneles, E.M. <i>et al.</i> (2015) Immune Response of Calves Vaccinated with <i>Brucella abortus</i>. S19 or RB51 and Revaccinated with RB51. PLoS One. 10 (9): e0136696.
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
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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 registered trademark of EMD Biosciences.
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Health And Safety Information	Material Safety Datasheet documentation #10094 available at: 10094: https://www.bio-rad-antibodies.com/uploads/MSDS/10094.pdf
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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 Synthetic Peptide HISTIDINE TAG (MCA1396...) [ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [Biotin](#), [FITC](#)

Recommended Negative Controls

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M391609:211015'

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