

Datasheet: HCA116A647

Description:	HUMAN ANTI BOVINE FOXP3:Alexa Fluor® 647
Specificity:	FOXP3
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	AbD07627
Isotype:	HuCAL Fab bivalent
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
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 as a liquid conjugated to Alexa Fluor® 647.		
Max Ex/Em	Fluorophore	Emission Max (nm)	Excitation Max (nm)
	Alexa Fluor®647	665	650
Preparation	metal chelate affinity chromatography		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide (NaN ₃)		

Stabilisers	1% Bovine Serum Albumin
Approx. Protein Concentrations	Total protein concentration 0.05mg/ml
Immunogen	Bovine Foxp3-N1 fusion protein
External Database Links	UniProt: Q2LEZ0 Related reagents
Specificity	<p>Human anti Bovine FoxP3 antibody, clone 7627 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 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> Maślanka T <i>et al.</i> (2012) The presence of CD25 on bovine WC1+ γδ 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.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
Shelf Life	12 months from date of reconstitution.
Acknowledgements	<p>Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents.</p> <p>This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com</p>

Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10041 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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Regulatory

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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](#)

Related Products

Recommended Negative Controls

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:Alexa Fluor® 647 \(HCA052A647\)](#)

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