Datasheet: HCA116A

Description:	HUMAN ANTI BOVINE FOXP3
Specificity:	FOXP3
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD07627
Isotype:	HuCAL Fab bivalent
Quantity:	50 µg

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 *E. coli.* 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 lyophilized.
Reconstitution	Reconstitute with 0.5 ml distilled water
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 0.1 mg/ml after reconstitution
Immunogen	Bovine Foxp3-N1 fusion protein
External Database Links	**UniProt:** Q2LEZ0 Related reagents
Specificity	**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. 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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul
ELISA	This product is suitable for use in direct ELISA applications. Due to the presence of bovine serum albumin (BSA), this antibody is unsuitable for use as a capture reagent in sandwich ELISA applications. This product is also available without BSA, please enquire.
References	1. Maślanka T *et al.* (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. 2. Walsh, N.M. *et al.* (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] 3. 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. 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. 5. Walsh, N.M. *et al.* (2016) A morphological and immunophenotypic map of the immune response in Merkel cell carcinoma. Hum Pathol. 52: 190-6.
Storage	Store at +4ºC or at -20ºC 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.
Shelf Life	12 months from date of reconstitution
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. His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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 HuCAL Antibodies Technical Manual

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 (HCA052A)

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Printed on 23 Oct 2018