Datasheet: HCA116A647

BATCH NUMBER 1711

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 *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 as a liquid conjugated to Alexa Fluor® 647.

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 Stabilisers	0.09% Sodium Azide (NaN_3) 1% Bovine Serum Albumin
Approx. Protein Concentrations	Total protein concentration 0.05 mg/ml
Immunogen	Bovine Foxp3-N1 fusion protein
External Database Links	**UniProt:** Q2LEZ0 Related reagents
RRID	AB_1658062
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

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 +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.
Guarantee	12 months from date of despatch
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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

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