

Datasheet: HCA116A647

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| 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) |
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| Preparation | Metal chelate affinity chromatography |
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| Buffer Solution | Phosphate buffered saline |
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| Preservative | 0.09% Sodium Azide (NaN ₃) |
| Stabilisers | 1% Bovine Serum Albumin |

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| Approx. Protein Concentrations | Total protein concentration 0.05 mg/ml |
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| Immunogen | Bovine Foxp3-N1 fusion protein |
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| External Database Links | UniProt: Q2LEZ0 Related reagents |
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| RRID | AB_1658062 |
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| 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> |
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| Flow Cytometry | Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul |
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| References | <ol style="list-style-type: none">1. 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): 11-20.2. 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]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. <i>et al.</i> (2016) A morphological and immunophenotypic map of the immune response in Merkel cell carcinoma. Hum Pathol. 52: 190-6.6. 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. |
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| Storage | This product is shipped at ambient temperature. It is recommended to aliquot and store at |
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-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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Health And Safety Information Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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](#)

Related Products

Recommended Negative Controls

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

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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

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