

## Datasheet: HCA173A647

<b>Description:</b>	HUMAN ANTI CHICKEN CD25:Alexa Fluor® 647
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2 RECEPTOR ALPHA
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD13504
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat - 1/10
Immunofluorescence			■	

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.

Target Species	Chicken		
Species Cross Reactivity	Does not react with:Duck, Goose		
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. Conjugated to Alexa Fluor 647 (A647) - liquid.		
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		

<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	Antibody concentration 0.05 mg/ml
<b>Immunogen</b>	Recombinantly expressed his-tagged chicken CD25
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q90WJ4</a> <a href="#">Related reagents</a>
<b>Specificity</b>	<p><b>Human anti Chicken CD25 antibody, clone AbD13504</b> recognizes the chicken IL-2 receptor alpha chain (IL-2Rα) , identified as the chicken homologue of human CD25 and cited as ChCD25 in published literature.</p> <p>Chicken IL-2Rα is a cell surface antigen expressed by activated T-lymphocytes, monocytes/macrophages and thrombocytes.</p> <p>CD4+ve/CD25+ve and CD8+ve/CD25+ve cells are up-regulated following infection with avian influenza virus (H9N2) and may therefore have an important role in the immune response to avian influenza virus infection (<a href="#">Huang et al. 2012</a>).</p> <p>Chicken IL-2Rα is the low affinity receptor for Interleukin-2.</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Braukmann, M. et al. (2015) Avian CD25(+) gamma/delta (γδ) T cells after <i>Salmonella</i> exposure. <a href="#">Vet Immunol Immunopathol. 168 (1-2): 14-8.</a></li> <li>2. Polasky C et al. (2016) Non-specific activation of CD8α-characterised γδ T cells in PBL cultures of different chicken lines. <a href="#">Vet Immunol Immunopathol. 179: 1-7.</a></li> <li>3. Lee, I.K. et al. (2018) Regulation of CD4<sup>+</sup>CD8<sup>-</sup>CD25<sup>+</sup> and CD4<sup>+</sup>CD8<sup>+</sup>CD25<sup>+</sup> T cells by gut microbiota in chicken. <a href="#">Sci Rep. 8 (1): 8627.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	<p>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 <a href="#">bio-rad.com/en-us/trademarks</a> for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</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</p>

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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
<b>Regulatory</b>	For research purposes only
<b>Technical Advice</b>	Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>

## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

[MOUSE ANTI CHICKEN CD4:RPE \(MCA2164PE\)](#)

[MOUSE ANTI CHICKEN CD8 ALPHA:RPE \(MCA2166PE\)](#)

[MOUSE ANTI CHICKEN CD4:FITC \(MCA2164F\)](#)

[MOUSE ANTI CHICKEN CD8 ALPHA:FITC \(MCA2166F\)](#)

[MOUSE ANTI CHICKEN CD25 \(MCA5925GA\)](#)

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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](https://bio-rad-antibodies.com/datasheets)  
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