

Datasheet: HCA173A647

Description:	HUMAN ANTI CHICKEN CD25:Alexa Fluor® 647
Specificity:	CD25
Other names:	IL-2 RECEPTOR ALPHA
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	13504
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	▪			Neat - 1/10
Immunofluorescence			▪	

Where this antibody 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 antibody 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 *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. Conjugated to Alexa Fluor 647 (A647) - liquid.

Max Ex/Em

Fluorophore	Excitation (nm)	Emission (nm)
Alexa Fluor®647	650	665

Preparation

Metal chelate affinity chromatography

Buffer Solution

Phosphate buffered saline.

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)
1% Bovine Serum Albumin

Approx. Protein

Antibody concentration 0.05mg/ml

Concentrations

Immunogen Recombinantly expressed his-tagged chicken CD25

External Database Links **UniProt:**
[Q90WJ4](#) [Related reagents](#)

Specificity **Human anti Chicken CD25 antibody, clone 13504** recognizes the chicken IL-2 Receptor alpha chain (IL-2R α) , identified as the chicken homologue of human CD25 and cited as ChCD25 in published literature.
Chicken IL-2R α is a cell surface antigen expressed by activated T-lymphocytes, monocytes/macrophages and thrombocytes.
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 ([Huang et al. 2012](#)).
Chicken IL-2R α is the low affinity receptor for Interleukin-2.

References

1. Braukmann, M. *et al.* (2015) Avian CD25(+) gamma/delta ($\gamma\delta$) T cells after *Salmonella* exposure. [Vet Immunol Immunopathol. 168 \(1-2\): 14-8.](#)
2. Polasky C *et al.* (2016) Non-specific activation of CD8 α -characterised $\gamma\delta$ T cells in PBL cultures of different chicken lines. [Vet Immunol Immunopathol. 179: 1-7.](#)

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. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 12 months from date of despatch.

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.

Health And Safety Information Material Safety Datasheet documentation #10041 available at <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 Negative Controls

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

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

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

[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 \(MCA5925GA\)](#)
[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 \(MCA5925GA\)](#)
[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 \(MCA5925GA\)](#)
[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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