

## Datasheet: HCA173

<b>Description:</b>	HUMAN ANTI CHICKEN CD25
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2 RECEPTOR ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	13504
<b>Isotype:</b>	HuCAL Fab bivalent
<b>Quantity:</b>	0.1 mg

## 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 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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.

<b>Target Species</b>	Chicken
<b>Species Cross Reactivity</b>	Does not react with: Duck, Goose
<b>Product Form</b>	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. This antibody is supplied as a liquid
<b>Preparation</b>	Metal chelate affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein</b>	Antibody concentration 0.5mg/ml

## Concentrations

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**Immunogen** Recombinantly expressed his-tagged chicken CD25

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

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**Specificity** **Human anti Chicken CD25 antibody, clone 13504** recognizes the chicken IL-2 Receptor alpha chain (IL-2R $\alpha$ ), identified as the chicken homologue of human CD25 and cited as ChCD25 in published literature. Chicken IL-2R $\alpha$  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 $\alpha$  is the low affinity receptor for Interleukin-2.

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**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 $\alpha$ -characterised  $\gamma\delta$  T cells in PBL cultures of different chicken lines. [Vet Immunol Immunopathol. 179: 1-7.](#)

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**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.

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**Shelf Life** 12 months from date of despatch.

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**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.

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Licensed Use** For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.

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**Regulatory** For research purposes only

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**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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## Related Products

### Recommended Secondary Antibodies

Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA1396...) [ALEXA FLUOR® 488](#), [ALEXA FLUOR® 647](#), [DyLight®549](#), [DyLight®800](#), [FITC](#)

### Recommended Negative Controls

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)  
[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)  
[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)  
[HuCAL Fab-dHLX-MH NEGATIVE CONTROL \(HCA052\)](#)

## Recommended Useful Reagents

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

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