



## Datasheet: HCA173F

<b>Description:</b>	HUMAN ANTI CHICKEN CD25:FITC
<b>Specificity:</b>	CD25
<b>Other names:</b>	IL-2 RECEPTOR ALPHA
<b>Format:</b>	FITC
<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 - 1/10
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 fluorescein isothiocyanate (FITC) - liquid.

Max Ex/Em	Fluorophore	Excitation (nm)	Emission (nm)
	FITC	490	520

### Preparation

Metal chelate affinity chromatography

### Buffer Solution

Phosphate buffered saline.

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
1% Bovine Serum Albumin

<b>Approx. Protein Concentrations</b>	Antibody concentration 0.1mg/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>	<b>Human anti Chicken CD25 antibody, clone 13504</b> 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 ( <a href="#">Huang et al. 2012</a> ). Chicken IL-2R $\alpha$ is the low affinity receptor for Interleukin-2.
<b>References</b>	1. Braukmann, M. <i>et al.</i> (2015) Avian CD25(+) gamma/delta ( $\gamma\delta$ ) T cells after <i>Salmonella</i> exposure. <a href="#">Vet Immunol Immunopathol. 168 (1-2): 14-8.</a> 2. Polasky C <i>et al.</i> (2016) Non-specific activation of CD8 $\alpha$ -characterised $\gamma\delta$ T cells in PBL cultures of different chicken lines. <a href="#">Vet Immunol Immunopathol. 179: 1-7.</a>
<b>Storage</b>	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.
<b>Shelf Life</b>	12 months from date of despatch.
<b>Acknowledgements</b>	Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zepelinstr. 4, 82178 Puchheim, Germany.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at <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:FITC \(HCA052F\)](#)

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:FITC \(HCA052F\)](#)

[HuCAL Fab-dHLX-MH NEGATIVE CONTROL:FITC \(HCA052F\)](#)

## **Recommended Useful Reagents**

[MOUSE ANTI CHICKEN CD4:RPE \(MCA2164PE\)](#)  
[MOUSE ANTI CHICKEN CD8 ALPHA:RPE \(MCA2166PE\)](#)  
[MOUSE ANTI CHICKEN CD25 \(MCA5925GA\)](#)  
[MOUSE ANTI CHICKEN CD4:RPE \(MCA2164PE\)](#)  
[MOUSE ANTI CHICKEN CD8 ALPHA:RPE \(MCA2166PE\)](#)  
[MOUSE ANTI CHICKEN CD25 \(MCA5925GA\)](#)  
[MOUSE ANTI CHICKEN CD4:RPE \(MCA2164PE\)](#)  
[MOUSE ANTI CHICKEN CD8 ALPHA:RPE \(MCA2166PE\)](#)  
[MOUSE ANTI CHICKEN CD25 \(MCA5925GA\)](#)  
[MOUSE ANTI CHICKEN CD4:RPE \(MCA2164PE\)](#)  
[MOUSE ANTI CHICKEN CD8 ALPHA:RPE \(MCA2166PE\)](#)  
[MOUSE ANTI CHICKEN CD25 \(MCA5925GA\)](#)

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