

Datasheet: HCA173F

BATCH NUMBER 159731

Description:	HUMAN ANTI CHICKEN CD25:FITC
Specificity:	CD25
Other names:	IL-2 RECEPTOR ALPHA
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AbD13504
Isotype:	HuCAL Fab bivalent
Quantity:	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.

	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 *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 Max (nm)	Emission Max (nm)
	FITC	490	525

Preparation Metal chelate affinity chromatography

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	Antibody concentration 0.1 mg/ml
Immunogen	Recombinantly expressed his-tagged chicken CD25
External Database Links	UniProt: Q90WJ4 Related reagents
Specificity	Human anti Chicken CD25 antibody, clone AbD13504 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	<ol style="list-style-type: none"> 1. Braukmann, M. et al. (2015) Avian CD25(+) gamma/delta ($\gamma\delta$) T cells after <i>Salmonella</i> exposure. Vet Immunol Immunopathol. 168 (1-2): 14-8. 2. Polasky C et al. (2016) Non-specific activation of CD8α-characterised $\gamma\delta$ T cells in PBL cultures of different chicken lines. Vet Immunol Immunopathol. 179: 1-7. 3. Lee, I.K. et al. (2018) Regulation of CD4⁺CD8⁻CD25⁺ and CD4⁺CD8⁺CD25⁺ T cells by gut microbiota in chicken. Sci Rep. 8 (1): 8627.
Storage	<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>
Guarantee	12 months from date of despatch
Acknowledgements	Sold under license of U.S. Patents 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad. His-tag is a registered trademark of EMD Biosciences.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/HCA173F10041
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 Useful Reagents

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

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

[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

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