

Datasheet: HCA173

Description:	HUMAN ANTI CHICKEN CD25
Specificity:	CD25
Other names:	IL-2 RECEPTOR ALPHA
Format:	Purified
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 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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. This antibody is supplied as a liquid.

Preparation

Metal chelate affinity chromatography

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Recombinantly expressed his-tagged chicken CD25
External Database Links	UniProt: Q90WJ4 Related reagents
Specificity	<p>Human anti Chicken CD25 antibody, clone AbD13504 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 (Huang et al. 2012).</p> <p>Chicken IL-2Rα is the low affinity receptor for Interleukin-2.</p>
References	<ol style="list-style-type: none"> 1. Braukmann, M. <i>et al.</i> (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 <i>et al.</i> (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. <i>et al.</i> (2018) Regulation of CD4⁺CD8⁻CD25⁺ and CD4⁺CD8⁺CD25⁺ T cells by gut microbiota in chicken. Sci Rep. 8 (1): 8627. 4. He, S. <i>et al.</i> (2021) High-frequency and activation of CD4⁺CD25⁺ T cells maintain persistent immunotolerance induced by congenital ALV-J infection. Vet Res. 52 (1): 119. 5. Rimondi, A. <i>et al.</i> (2022) Few Amino Acid Mutations in H6 Influenza A Virus From South American Lineage Increase Viral Replication Efficiency in Poultry. Front Microbiol. 13: 953738.
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	<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 bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a trademark of EMD Biosciences.</p>

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/HCA173 10040
Licensed Use	For <i>in vitro</i> . 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 Secondary Antibodies

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

Recommended Negative Controls

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

Recommended Useful Reagents

[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
'M428313:240301'

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