

Datasheet: HCA005B

Description:	HUMAN ANTI CYCLOPHILIN A:Biotin
Specificity:	CYCLOPHILIN A
Other names:	CYPA
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	AbD00794
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			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			1/100 - 1/1000

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

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Bovine, Pig, Monkey
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

A bivalent human recombinant Fab selected from the HuCAL[®] GOLD phage display library. Expressed in *E. coli* and purified using NiNTA affinity chromatography. 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 conjugated to Biotin - liquid.

Preparation	Metal-chelate affinity chromatography.
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Buffer Solution	Phosphate buffered saline
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Preservative	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin

Approx. Protein Concentrations	Antibody concentration 0.1mg/ml
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Immunogen	Full length human recombinant cyclophilin A, amino acid residues 1-164, molecular weight 17.9 kDa
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External Database Links	UniProt: P62937 Related reagents Entrez Gene: 5478 PPIA Related reagents
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Synonyms	CYPA
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RRID	AB_10896838
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Specificity	<p>Human anti cyclophilin A antibody, clone AbD00794 recognizes cyclophilin A, also known as peptidyl-prolyl cis/trans isomerase A, PPIA or rotamase A. Cyclophilin A is a ~18 kDa, ubiquitously distributed intracellular protein that can be secreted by cells in response to inflammatory stimuli (Jin et al. 2000).</p> <p>Cyclophilin A is a member of the immunophilin class of proteins that all possess peptidyl-prolyl cis/trans isomerase activity and, therefore, are believed to be involved in protein folding and/or intracellular protein transport (Fischer et al. 1989). This protein can interact with several HIV proteins including p55 gag, Vpr, and capsid protein. It has been shown to be necessary for the formation of infectious HIV virions (Franke et al. 1994). Cyclophilin is a specific high-affinity binding protein for the immunosuppressant agent cyclosporin A (Handschumacher et al. 1984). Because of its dramatic effects on decreasing morbidity and increasing survival rates in human transplants, the molecular mechanism of immunosuppression by cyclosporin A has been a matter of much interest (Durette et al. 1988). Multiple PPIA pseudogenes that map to different chromosomes have been reported. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed (Chatellard-Gruaz D et al. 1994).</p> <p>Mouse anti cyclophilin antibody, clone AbD00794 has been used successfully for the detection of cyclophilin A in HeLa cell lysates by Western blotting.</p>
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Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended.
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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.

Guarantee 6 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.
His-tag is a registered trademark of EMD Biosciences.

Health And Safety Information Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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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](#)

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