

Datasheet: HCA005

**BATCH NUMBER 0710R**

<b>Description:</b>	HUMAN ANTI CYCLOPHILIN A
<b>Specificity:</b>	CYCLOPHILIN A
<b>Other names:</b>	CYPA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD00794
<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
ELISA	▪			2ug/ml
Western Blotting	▪			0.5ug/ml

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 (lambda light chain) selected from the HuCAL<sup>®</sup> 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.

**Preparation** 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 Concentrations</b>	Antibody concentration 0.5 mg/ml
<b>Immunogen</b>	Full length human recombinant cyclophilin A, amino acid residues 1-164, molecular weight 17.9 kDa
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P62937</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5478</a>    PPIA    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CYPA
<b>RRID</b>	AB_609613
<b>Specificity</b>	<p><b>Human anti cyclophilin A antibody, clone AbD00794</b> 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 (<a href="#">Jin <i>et al.</i> 2000</a>).</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 (<a href="#">Fischer <i>et al.</i> 1989</a>). 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 (<a href="#">Franke <i>et al.</i> 1994</a>). Cyclophilin is a specific high-affinity binding protein for the immunosuppressant agent cyclosporin A (<a href="#">Handschumacher <i>et al.</i> 1984</a>). 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 (<a href="#">Durette <i>et al.</i> 1988</a>). Multiple PPIA pseudogenes that map to different chromosomes have been reported. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed (<a href="#">Chatellard-Gruaz D <i>et al.</i> 1994</a>).</p> <p>Human anti cyclophilin antibody, clone AbD00794 has been used successfully for the detection of cyclophilin A in HeLa cell lysates by Western blotting.</p>
<b>Activity</b>	Activity was tested by indirect ELISA: recombinant purified Cyclophilin A (5 µg/ml) plus unrelated control proteins were immobilized on a microtiter plate. Specific binding was monitored by first adding HCA005 (2 µg/ml), then adding a secondary antibody (goat anti-human F(ab') <sub>2</sub> fragment specific, AP conjugate. 1:5000 diluted). A fluorescent signal was created by adding the AP substrate Attophos. The signal on the antigen is at least

5-fold above background, whereas the signal on the control antigens is less than 1.5-fold above background.

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<b>Purity</b>	Purity was tested by SDS-PAGE and Coomassie-staining of a 2 µg sample.
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<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. 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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<b>Guarantee</b>	6 months from date of despatch
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<b>Acknowledgements</b>	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.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA005">https://www.bio-rad-antibodies.com/SDS/HCA005</a> 10040
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<b>Licensed Use</b>	For in vitro research purposes only, unless otherwise specified in writing by Bio-Rad.
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<b>Regulatory</b>	For research purposes only
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<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>
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## Related Products

### Recommended Secondary Antibodies

Goat Anti Human IgG F(ab') <sub>2</sub> (0500-0099...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Mouse Anti Synthetic Peptide HISTIDINE TAG (MCA5995...)	<a href="#">HRP</a>
Mouse Anti Human C-MYC (MCA2200...)	<a href="#">HRP</a>

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)

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