

## Datasheet: HCA275P

<b>Description:</b>	HUMAN ANTI BACTERIAL ALKALINE PHOSPHATASE:HRP
<b>Specificity:</b>	ALKALINE PHOSPHATASE
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD25296_hIgG2
<b>Isotype:</b>	IgG2
<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	▪			
Western Blotting	▪			1/1,000 - 1/10,000

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.

<b>Target Species</b>	Bacterial
<b>Product Form</b>	Human IgG2 antibody (lambda light chain) selected from the HuCAL phage display library and expressed in a human cell line. Conjugated to horseradish peroxidase (HRP) - liquid.
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<b>Source</b>	HKB-11
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.01% Thiomersal.
<b>Stabilisers</b>	HRP Stabiliser ( <a href="#">BUF052A</a> ).
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Bacterial alkaline phosphatase

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P00634</a> <a href="#">Related reagents</a>
<b>Specificity</b>	<p><b>Human Anti-Bacterial Alkaline Phosphatase Antibody, clone AbD25296_hlgG2</b> recognizes bacterial alkaline phosphatase (BAP), a periplasmic enzyme which catalyzes the release of 5'- and 3'-phosphate groups from DNA, RNA and nucleotides. BAP can also dephosphorylate a number of proteins and alkaloids, and has an optimum pH of 8.0. BAP is encoded by the phoA gene, and forms a homodimer of two identical ~47 kDa subunits.</p> <p>Fab-A and Fab-Max format antibodies generated using HuCAL® technology are formed via dimerization of BAP. The Anti-BAP Antibody HCA275P can be used as a secondary detection reagent with HuCAL antibodies in Fab-A and Fab-Max formats (Fab-Max is a modified BAP fusion antibody with inactivated enzymatic activity).</p> <p><a href="#">View further information about HuCAL antibody formats.</a></p>
<b>Affinity</b>	<p>The intrinsic affinity of the monovalent form of this antibody is <math>K_D=38\text{pM}</math> as measured by real time, label-free molecular interaction analysis on immobilized HuCAL antibody in the Fab-A-FH format.</p>
<b>References</b>	<p>1. Harth, S. <i>et al.</i> (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. <a href="#">MAbs. 11 (1): 178-90.</a></p>
<b>Storage</b>	<p>Store at +4°C. DO NOT FREEZE</p> <p>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.</p>
<b>Guarantee</b>	<p>12 months from date of despatch</p>
<b>Acknowledgements</b>	<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 <a href="http://bio-rad.com/en-us/trademarks">bio-rad.com/en-us/trademarks</a> for details.</p>
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10131 available at: <a href="https://www.bio-rad-antibodies.com/SDS/HCA275P">https://www.bio-rad-antibodies.com/SDS/HCA275P</a> 10131</p>
<b>Regulatory</b>	<p>For research purposes only</p>
<b>Technical Advice</b>	<p>Recommended protocols and further information about HuCAL recombinant antibody technology can be found in the <a href="#">HuCAL Antibodies Technical Manual</a>.</p>

## Related Products

### Recommended Useful Reagents

[HISPEC ASSAY DILUENT \(BUF049A\)](#)

<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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