

Datasheet: HCA275P

Description:	HUMAN ANTI BACTERIAL ALKALINE PHOSPHATASE:HRP
Specificity:	ALKALINE PHOSPHATASE
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	AbD25296_hlgG2
Isotype:	IgG2
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
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.

Target Species	Bacterial
Product Form	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.
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Source	HKB-11
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal. HRP Stabiliser (BUF052A).
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Bacterial alkaline phosphatase

External Database**Links****UniProt:**[P00634](#)[Related reagents](#)

Specificity**Human Anti-Bacterial Alkaline Phosphatase Antibody, clone AbD25296_hlgG2**

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.

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).

[View further information about HuCAL antibody formats.](#)

Affinity

The intrinsic affinity of the monovalent form of this antibody is $K_D=38\text{pM}$ as measured by real time, label-free molecular interaction analysis on immobilized HuCAL antibody in the Fab-A-FH format.

References

1. Harth, S. *et al.* (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. [MAbs. 11 \(1\): 178-90.](#)

Storage

This product is shipped at ambient temperature.

Store at +4°C. DO NOT FREEZE

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.

Guarantee

12 months from date of despatch

Acknowledgements

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Health And Safety Information

Material Safety Datasheet documentation #10131 available at: <https://www.bio-rad-antibodies.com/SDS/HCA275P>
10131

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

HISPEC ASSAY DILUENT (BUF049A)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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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