

Datasheet: HCA275F

Description:	HUMAN ANTI BACTERIAL ALKALINE PHOSPHATASE:FITC
Specificity:	ALKALINE PHOSPHATASE
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	AbD25296_hIgG2
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
Flow Cytometry	▪			1/5 - 1/50

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid.		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein A		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% sodium azide (NaN ₃)		
Stabilisers	1% bovine serum albumin		
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml		

Immunogen	Bacterial alkaline phosphatase
External Database Links	UniProt: P00634 Related reagents
Specificity	<p>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.</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>View further information about HuCAL antibody formats.</p>
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. <i>et al.</i> (2019) Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics. MAbs. 11 (1): 178-90.
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	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.
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/HCA275F10041
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 Negative Controls

[RECOMBINANT HUMAN IgG2 LAMBDA \(HCA108\)](#)

Recommended Useful Reagents

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

[LYNX RAPID FLUORESCCEIN ANTIBODY CONJUGATION KIT \(LNK063F\)](#)

[MOUSE ANTI HUMAN CD4:Alexa Fluor® 647 \(MCA1267A647\)](#)

[MOUSE ANTI HUMAN CD3 \(MCA2184\)](#)

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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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