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 Stabilisers

0.09% Sodium Azide (NaN_3)
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	**Human Anti-Bacterial Alkaline Phosphatase Antibody, clone AbD25296_hIgG2** 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 monovalent intrinsic affinity of this antibody was measured as K_D=38pM 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. 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. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.
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: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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 FLUORESCEIN 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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