

Datasheet: TZA034

BATCH NUMBER 167750

Description:	HUMAN ANTI HUMAN COMPLEMENT C5
Specificity:	COMPLEMENT C5
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	AbD36700
Isotype:	Fab antibody
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	▪			

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
Product Form	A monovalent human recombinant Fab (kappa light chain) in the Fab-F-Spy2-H format selected from the HuCAL® phage display library and expressed in a proprietary <i>E. coli</i> strain. The antibody is tagged with a DYKDDDDK tag, a SpyTag version 2 (VPTIVMVDAYKRYK) and a His6-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.
Preparation	Metal chelate affinity chromatography
Source	E.coli
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.0095% MIT

Approx. Protein Concentrations	Antibody concentration 0.5 mg/ml
Immunogen	Human Complement C5
External Database Links	<p>UniProt: P01031 Related reagents</p> <p>Entrez Gene: 727 C5 Related reagents</p>
Synonyms	CPAMD4
Specificity	<p>Human Anti-Human Complement C5 Antibody, clone AbD36700 specifically recognizes the human complement factor 5 (C5).</p> <p>The complement factor 5 (C5) forms part of the complement system and the body's innate immune system. The complement system is vital to the body's control of inflammation, homeostasis and defense against foreign pathogens. Downstream, C5 is cleaved into C5a and C5b by the C5 convertase. C5a increases blood vessel permeability and attracts inflammatory cells, while C5b binds with other complement components, such as the complement factor 9 to form a membrane attack complex (MAC) to kills the pathogen. Both C5a and C5b-9 cause the terminal complement-mediated events that are characteristic of paroxysmal nocturnal hemoglobinuria (PNH) and atypical hemolytic uremic syndrome (aHUS).</p> <p>This TrailBlazer Antibody is available in two different formats: as an unconjugated monovalent Fab format (TZA034) and as a bivalent Fab antibody conjugated to HRP (TZA034P). The monovalent recombinant Fab antibody has a SpyTag incorporated, which is used to create the bivalent format by coupling two SpyTagged Fab antibodies to an HRP conjugated BiSpyCatcher2 (TZA002P). The monovalent Fab format of this Human anti-Human Complement C5 Antibody (TZA034) can also be converted by the end user into alternative antibody formats using any of the SpyCatchers available in our catalog.</p> <p>View a summary of all SpyCatcher products</p> <p>This antibody recognizes free human C5 as well as human C5 in complex with the humanized monoclonal antibody drug eculizumab. Either format can be used to detect the human complement factor C5 in direct or indirect ELISA or to develop a pharmacokinetic (PK) antigen capture assay to measure free human complement C5 captured via immobilized Human Anti-Eculizumab Antibody, clone AbD32334 (HCA339).</p>
ELISA	Clone AbD36700ad can be used in indirect ELISA to detect the human complement factor C5 or the eculizumab/C5 complex. It can also be used as detection antibody for the complex of eculizumab and human complement C5 in a PK bridging ELISA together with clone AbD32334 (HCA339) as the capture antibody.

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. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Acknowledgements	<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 bio-rad.com/en-us/trademarks for details.</p> <p>His-tag is a registered trademark of EMD Biosciences.</p>
Health And Safety Information	<p>Material Safety Datasheet documentation #20479 available at: https://www.bio-rad-antibodies.com/SDS/TZA034</p>
Licensed Use	For in vitro research purposes and for commercial applications for the provision of in vitro testing services to support preclinical and clinical drug development. Any re-sale in any form or any other commercial application needs a written agreement with Bio-Rad.
Regulatory	For research purposes only
Technical Advice	<p>Recommended protocols for coupling a Fab antibody with a SpyTag to a SpyCatcher can be found at SpyTag and SpyCatcher Products, and further information about HuCAL recombinant antibody technology can be found in the HuCAL Antibodies Technical Manual</p>

Related Products

Recommended Useful Reagents

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

[SpyTag3 PEPTIDE \(BLP086\)](#)

[HUMAN ANTI ECULIZUMAB \(DRUG/TARGET COMPLEX\) \(HCA339\)](#)

[HUMAN ANTI HUMAN COMPLEMENT C5:HRP \(TZA034P\)](#)

[BiSpyCatcher2:HRP \(TZC002P\)](#)

[BiSpyCatcher2:Biotin \(TZC002B\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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