

## Datasheet: TZA034P

<b>Description:</b>	HUMAN ANTI HUMAN COMPLEMENT C5:HRP
<b>Specificity:</b>	COMPLEMENT C5
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD36700
<b>Isotype:</b>	Fab antibody
<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	▪			

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 bivalent human recombinant Fab (kappa light chain) generated by coupling of the monovalent SpyTagged Fab [TZA034](#) with a HRP conjugated BiSpyCatcher version 2 ([TZC002P](#)). The coupled antibody has two DYKDDDDK tags and three His6-tags. It contains SpyTag3 peptide ([BLP086](#)) in 5-fold molar excess to block any unreacted Catcher sites. 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

<b>Immunogen</b>	Human Complement C5
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01031</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">727</a>   C5   <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CPAMD4
<b>Specificity</b>	<p><b>Human Anti-Human Complement C5 Antibody, clone AbD36700</b> 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 to form a membrane attack complex (MAC) to kill the pathogen.</p> <p>This TrailBlazer Antibody is available in two different formats: as an unconjugated monovalent Fab format (<a href="#">TZA034</a>) and as a bivalent Fab antibody conjugated to HRP (<a href="#">TZA034P</a>). 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 (<a href="#">TZC002P</a>). The monovalent Fab format of this Human anti-Human Complement C5 Antibody (<a href="#">TZA034</a>) can also be converted by the end user into alternative antibody formats using any of the SpyCatchers available in our catalog.</p> <p><a href="#">View a summary of all SpyCatcher products</a></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 (<a href="#">HCA339</a>).</p>
<b>ELISA</b>	Clone AbD36700pap can be used in direct 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 ( <a href="#">HCA339</a> ) as the capture antibody.
<b>Storage</b>	<p>This product is shipped frozen.</p> <p>When ready to use, thaw and aliquot the sample as needed. Store aliquots at -70°C, if available, otherwise store at -20°C. It is not recommended to keep aliquots at 4°C for more than one week.</p>
<b>Guarantee</b>	12 months from date of despatch

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His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety Information** Material Safety Datasheet documentation #20479 available at: <https://www.bio-rad-antibodies.com/SDS/TZA034P20479>

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**Regulatory** For research purposes only

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**Technical Advice** 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](#)

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## Related Products

### Recommended Useful Reagents

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

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

[HUMAN ANTI HUMAN COMPLEMENT C5 \(TZA034\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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