

## Datasheet: HCA276

**BATCH NUMBER 1702**

<b>Description:</b>	HUMAN ANTI ETANERCEPT
<b>Specificity:</b>	ETANERCEPT
<b>Other names:</b>	Enbrel®
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AbD25939
<b>Isotype:</b>	HuCAL Fab monovalent
<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.

### Product Form

A monovalent human recombinant Fab (lambda light chain) selected from the HuCAL® phage display library, expressed in *E. coli*. The antibody is tagged with a DYKDDDDK tag and a HIS-tag (HHHHHH) at the C-terminus of the antibody heavy chain. This antibody is supplied as a liquid.

### Preparation

Metal chelate affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.01% Thiomersal

### Approx. Protein Concentrations

Antibody concentration 0.5 mg/ml

### Immunogen

Etanercept

**Specificity** **Human anti etanercept, clone AbD25939** is an antibody that specifically recognizes etanercept as well as the extracellular ligand-binding portion of the 75 kDa (p75) human tumor necrosis factor receptor 2 (TNFR2). Clone AbD25939 does not inhibit the binding of etanercept to its target tumor necrosis factor alpha (TNF $\alpha$ ). The antibody binds to an epitope outside the TNF $\alpha$  binding site and can be used to measure the levels of etanercept and biosimilar products (e.g. Etacept, Intacept) in bioanalytical assays.

Our anti-etanercept antibodies can be used to develop pharmacokinetic (PK) bridging assays to measure either free drug or total drug. This antibody, in monovalent Fab format, is recommended as the capture antibody. For an assay to detect free drug, use with the inhibitory antibody, clone AbD25940\_hlgG4Pro ([HCA277P](#)) for detection; for an assay to detect total drug use with p75-Fc-fusion specific clone AbD26183\_hlgG1 ([HCA279P](#)) for detection.

Etanercept (Enbrel<sup>®</sup>) is a dimeric fusion protein consisting of the extracellular ligand-binding portion of the human 75 kDa (p75) TNFR2 linked to the Fc portion of human IgG1. The Fc component of etanercept contains the CH2 domain, the CH3 domain and hinge region, but not the CH1 domain of IgG1. It is used to treat autoimmune diseases by interfering with TNF, acting as a TNF inhibitor. It binds to both TNF $\alpha$  and TNF $\beta$  (Lymphotoxin A).

[View a summary of all anti-etanercept antibodies.](#)

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**Affinity** The monovalent intrinsic affinity of AbD25939 was measured as  $K_D = 3.2$  nM by real time, label free molecular interaction analysis on immobilized etanercept.

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**ELISA** This product may be used in a direct or indirect ELISA or as capture antibody for etanercept.  
Protocol: [PK bridging ELISA to measure free drug](#)  
Protocol: [PK bridging ELISA to measure total drug](#)

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**Storage** Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Acknowledgements** Sold under license of U.S. Patents 6753136, 7785859 and 8273688 and corresponding patents. This antibody was developed by Bio-Rad, Zeppelinstr. 4, 82178 Puchheim, Germany.

Enbrel<sup>®</sup> is a registered trademark of Immunex Corporation.

His-tag is a registered trademark of EMD Biosciences.

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**Health And Safety** Material Safety Datasheet documentation #10094 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/HCA276>  
10094

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**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.

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**Regulatory** For research purposes only

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**Technical Advice** Recommended protocols 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

[HUMAN ANTI ETANERCEPT \(HCA277\)](#)

[HUMAN ANTI ETANERCEPT \(HCA279\)](#)

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

[HUMAN ANTI ETANERCEPT:HRP \(HCA277P\)](#)

[HUMAN ANTI ETANERCEPT:HRP \(HCA279P\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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